Bursar

REPORT

OF THE

BOARD OF GOVERNORS

OF THE

UNIVERSITY OF ALBERTA

Year Ending December 31st, 1923

UNIVERSITY OF ALBERTA
ARCHIVES
ACCESSION NO. 71-164-35
REFERENCE NO.

To His Honour

The Lieutenant Governor in Council.

Sir:

On behalf of the Board of Governors of the University of Alberta, and in accordance with section 31, subsection 2 of an Act respecting the University of Alberta, the undersigned have the honour to transmit to you, through the Minister of Education, the Report of the University for the year closing December 31st, 1923.

The Report consists of two parts, Part I- the Report of the President on the academic work of the University for the year ending June 30th, 1923, and Part II- the Financial Statement for the year ending December 31st, 1923.

We have the honour to remain your obedient servants,

Chairman.

President.

PART I

THE REPORT OF THE PRESIDENT

To The Board of Governors

of The University of Alberta.

Gentlemen:

In accordance with the requirements of the University Act, Section 66, Subsection 7, I beg to submit, herewith, a report on the work of the University for the academic year ending, June 30th, 1923, the fifteenth annual report of the University, the thirteenth to your honourable body.

Staff

No changes have taken place in connection with the organization of the faculties during the current year. They stand as stated to you in the report of one year ago.

Professors	33
Associate Professors	10
Assistant Professors	14
Lecturers	17
Sessional Lecturers	3
Instructors	10
Demonstrators	1
	88

Library-

Librarian	1
Assist. Librarians	2
Sessional help	1

Extension Department-

Director	1
Assistant Director	1
Librarian	1
Lecturer	1

96

Correspondence Department :

Director	1
Instructors	3

Industrial Laboratory:

Director	1
Assistant	1

There were in addition to the above twenty-nine lecturers, instructors and demonstrators in the Faculty of Medicine who were not on the permanent staff of the University but who received a small honorarium for their services in the various laboratories and hospital departments.

Further, there were thirteen honorary lecturers in Law who were not on the salaried staff but who also received a small honorarium. This was due to the fact that we were giving Law lectures at the Edmonton and Calgary Court Houses. These lectures, however, have now been discontinued, Law being given in the University, so that this personnel is no longer associated with the University.

29
13
47

Correspondence Department :

Director	1
Instructors	3

Industrial Laboratory:

Director	1
Assistant	1

Resignations:

T. H. Milne, M.A., Lecturer in Mathematics

Grant Lochhead, B.A., M.Sc., Ph.D., Lecturer in Biochemistry

N. M. Stover, M. Sc., Instructor in Chemistry

Grace Gladstone, M. Sc., Instructor in Household Economics

Janet M. McBratney, Instructor, Correspondence Department

Annie Norrington, B.Sc., Instructor, Correspondence Department

Ferdinand Lohmann, M. Sc. Demonstrator in Physics

Charles T. Allwork, B.A., Assistant in History

Assignments:

It is with the deepest regret that we report the loss by death of Professor Gaetz and Professor S. D. Killam.

Professor Gaetz came to us some years ago for the purpose of organizing the School of Pharmacy in the University and during the time that he was with us, he was one of the ablest counsellors in connection with all matters of University development. The School of Pharmacy will remain in the University as a monument to his zeal and earnestness.

Dr. S. D. Killam, one of our younger men, was one of the most brilliant young mathematicians in Canada. Although only thirty-six years of age, he had already begun to leave his mark on mathematical science. He was a teacher and colleague beloved alike by students and staff. His untimely death by accidental drowning has left a vacancy in the University exceedingly difficult to fill.

Registration by Faculties

As distributed in the various faculties and schools, the numbers are as follows:

Total Registration 1314

1. Faculty of Arts and Sciences 696

B.A. and B.Sc. in Arts 340

Bachelor of Commerce..... 39

B.Sc. in Household Sc. 29

B.Sc. in Pharmacy 16

Special students 64

Graduate Courses 87

Combined Courses:

Arts & Agriculture	11
Arts & Law	43
Arts & Medicine	43
Arts & App. Sci.	16
Arts & Architecture	2
	115

Summer Session..... 116

340
115
455

34273

2. Faculty of Applied Science 103

Civil, Mining, Electrical 49

Architecture 2

Graduate Courses 4

Special Students 1

Preliminary year for Engineering.... 28

Combined Courses:

Arts & App. Sci. 16
Arts & Arch..... 2 18

3. Faculty of Medicine 190

Medicine..... 102

Dentistry 44

Special Graduate students 1

Combined Courses:

Arts & Medicine..... 43

4. Faculty of Law 120

Law 77

Combined Courses:

Arts & Law 43

5. Faculty of Agriculture 139

Agriculture 67

Bach. of Household Sc.... 7

Combined Courses:

Arts & Agric. 11

Short Course in Dairying.. 54

6. School of Pharmacy 61

B.Sc. in Pharmacy 16

Diploma in Pharmacy..... 45

7. Correspondence 131

8. B. D. students 6

Total.... 1445

Less duplicate registration in double courses 131

Total.. 1314

4. Faculty of Law 120

Law 77

Combined Courses:

Arts & Law 43

5. Faculty of Agriculture 124

Agriculture 87

B.Sc. of Horticult Sc.... 7

Combined Courses:

Arts & Agric. 21

Short Course in Dairying.. 24

6. School of Pharmacy 83

B.Sc. in Pharmacy 38

Diploma in Pharmacy..... 45

7. Correspondence 371

8. T. D. students 6

Total.... 1015

Less duplicate registration in
Arabic courses 173

Total.. 1042

Student Registration for the Academic Year

Ending June 30th, 1923.

The following classification of the student body under various heads:- academic, social and religious will give some indication of the manifold interests that enter into the University.

Registration by Years

	Men	Women	Total
First Year	233	75	308
Second Year	182	40	222
Third Year	153	71	224
Fourth Year	63	34	97
Graduate Students	63	29	92
B. D.	6	0	6
Correspondence	58	73	131
Special Students	37	27	64
Summer Session	51	65	116
Short Course in Dairying	54	0	54
	900	414	1314

REGISTRATION BY SUBJECT

Subject	Number of Course	Number of Students	Total
Accountancy	1	12	
	52	5	17
Agricultural Engineering	2	24	
	51	11	
	52	1	36
Anatomy	2 & 5	32	
	4	33	
	6	5	
	7	5	
	10	33	
	11	23	
	12	33	
	13	18	
	14	34	
	21	22	
	23	18	
	53	43	
	54	44	
	20	43	365
Ancient History	51	14	14
Animal Husbandry	1	28	
	2	27	
	3	13	
	4	13	
	10	25	
	52	2	
	53	3	
	55	7	117
Architecture	2	2	
	3	2	
	4	2	
	5	2	
	6	2	
	51	1	
	52	1	
	54	1	
	56	1	
	58	1	
	61	1	
	62	13	29

Subject	Number of Course	Number of Students	Total
Classics in English	51	20	20
Clinical Laboratory	52	14	14
Clinical Medicine	51	14	14
Clinical Surgery	51	14	14
Commercial Law		12	12
Constitutional Law		21	21
Contracts		31	31
Criminal Law		51	51
Dairying	51	12	12
Dentistry	1	5	
	2	18	
	3	18	41
Drawing	1	1	
	2	13	
	3	1	
	4	14	
	5	8	36
Education	51	5	
	53	2	7
Electrical Engineering	51	7	
	53	12	
	54	7	
	55	6	32
English	1	174	
	2	99	
	3	33	
	4	30	
	52	3	
	53	36	
	54	12	
	57	45	
	58	30	
	59	11	
	60	6	
	104	1	
	106	2	454

Subject	Number of Course	Number of Students	Total
Entomology	1	37	
	51	7	
	61	7	41
Equity		22	22
Evidence	1	21	21
Field Husbandry	1A3	28	
	3	38	
	4	24	
	51	7	
	52	6	
	53	9	
	54	3	
	55	7	
	121	2	118
French	A	108	
	1A3	120	
	3-4	48	
	41	11	
	42	9	
	45	26	
	51	30	
	52	10	
	55	36	
	101-102	3	391
Geology	32	10	
	33	13	
	51	18	
	52	8	
	53	2	
	54	7	
	55	4	
	56	7	
	57	4	
	58	8	
	103	3	84
German	A	49	
	1-3	11	
	2-4	3	
	41	5	
	51	4	72

Subject	Number of Course	Number of Students	Total
reek	1-3	7	
	52	1	
	101	1	9
ebrew	51	2	2
istory	1	142	
	2	24	
	3	54	
	54	6	
	56	20	
	58	45	
	101	4	295
istory of Agriculture	1	28	
	2	23	
	51	12	63
orticulture	1	28	28
ousehold Economics	1	7	
	2	7	
	3	6	
	31	7	
	51	6	
	52	9	
	55	9	
	56	6	
	57	4	
	58	4	
	59	4	69
ygiene	51	12	12
atin	A	119	
	1-3	93	
	2-4	3	
	26	27	
	57	2	
	104	1	
	111	1	
	113	1	245
egal History		50	50
aterie Medica	1	18	
	3	35	
	4	18	
	51	4	
	52	5	70

Subject	Number of Course	Number of Students	Total
Mathematics	1	157	
	2	32	
	3	13	
	7	19	
	21	24	
	22	26	
	25	19	
	26	18	
	31	32	
	32	29	
	36	28	
	53	3	
	55	3	
	57	4	
	58	3	
	59	6	
	61	20	
	63	2	
	101	3	
	103	3	
	106	3	
	110	3	451
Mining Engineering	54	6	
	55	3	
	58	4	
	59	3	
	60	4	
	61	6	
	62	3	
	63	4	
	64	4	
	65	4	
	66	3	44
Pathology	51	14	14
Pharmacology	51	14	14
Pharmacy	1	17	
	2	18	
	3	44	
	4	17	
	51	4	
	52	4	
	54	4	
	55	5	113
Philosophy	2	36	
	51	26	
	52	9	
	53	11	81

Subject	Number of Course	Number of Students	Total
Physics	1	155	
	3	15	
	6	20	
	8	15	
	11	38	
	21	27	
	31	34	
	53	6	
	54	4	
	57	3	317
Physiology	1	66	
	51	13	
	61	11	90
Political Economy	1	76	
	2	15	
	10	11	
	62	12	
	63	43	
	66	32	
	67	19	
	68	19	
	70	13	
	101	1	
	102	1	
	120	1	
	121	1	242
Practice	1	23	23
Property		31	31
Psychology	51	30	
	52	24	
	53	45	
	54	13	
	55	18	
	56	18	
	102	1	
	104	13	
	105	14	175
Real Property		23	23
Sales		23	23
Science & Engineering		12	12
Soils	1	24	
	2	22	
	53	10	
	54	7	
	55	7	70

Subject	Number of Courses	Number of Sections	Total
Physics	1	185	
	2	35	
	6	80	
	8	15	
	11	38	
	11	27	
	11	34	
	12	6	
	14	4	
	17	3	427
Physiology	2	66	
	23	13	
	32	11	90
Political Economy	1	70	
	2	30	
	10	11	
	17	12	
	23	41	
	25	10	
	27	12	
	28	13	
	29	10	
	101	1	
	102	1	
	120	1	
	121	1	225
Portuguese	1	21	21
Property		13	13
Psychology	31	10	
	33	24	
	35	10	
	34	12	
	35	12	
	38	10	
	102	1	
	104	10	
	106	14	134
Real Property		30	30
Optics		28	28
Relations & Negotiating		15	15
Roots	1	34	
	3	10	
	5	10	
	24	7	
	29	7	70

Subject	Number of Course	Number of Students	Total
Torts	1	30	30
Toxicology	1	17	
	61	3	20
Veterinary Science	1	22	
	51	2	24
Zoology	1	35	
	2	41	
	3	34	110
B.D.		6	6
Extra- mural Law Students-			
First Intermediate:			
Edmonton		6	
Calgary		6	12
Second Intermediate:			
Edmonton		6	
Calgary		12	18
First Finals:			
Edmonton		17	
Calgary		20	37
Second Finals:			
Edmonton		18	
Calgary		19	37
LL.B. Candidates-			
Legal Philosophies		11	
Ancient Law		12	
Jurisprudence		4	
Public International Law		11	
History of English Law		10	
Roman Law		9	
American Constitutional Law		9	66

Subject	Number of Courses	Number of Students	Total
Torts	1	30	30
Taxation	1	17	
	61	3	20
Veterinary Science	1	82	
	81	2	84
Zoology	1	89	
	2	41	
	3	24	130
Z.B.		6	6
Extra- mural Law Students-			
First Intermediate:			
Mimerton		6	
Grimsby		6	12
Second Intermediate:			
Mimerton		6	
Grimsby		12	18
First Finals:			
Mimerton		17	
Grimsby		20	37
Second Finals:			
Mimerton		18	
Grimsby		19	37
L.L.B. Qualifica-			
Legal Philosophies		12	
Judicial Law		12	
Jurisprudence		4	
Public International Law		11	
History of English Law		10	
Roman Law		9	
American Constitutional Law		9	66

Registration of Students According to National Origin

The following classification of students with respect to their origin shows how varied is the nationality of our student body:

1. British 1003

(a) Canada 762

Ontario	230
Alberta	190
Manitoba	101
Nova Scotia	47
Quebec	42
Saskatchewan	40
British Columbia	37
New Brunswick	37
Prince Edward Is.....	25
Yukon	4
"Canada"	1

The 190 in Alberta were distributed as follows:

Edmonton.....	47
Calgary	39
Medicine Hat	16
Ponoka	11
Lethbridge	9
MacLeod	5
Okotoks	4
Vegreville	4
Wetaskiwin	4
Star	3
Pincher Creek	3
Fort Saskatchewan	3
Cardston	3
Leduc	3
Olds	3
Lacombe	2
Beaver Lake	2
Didsbury	2
Cochrane	2

Avonray 1
Burnt Lake 1
Don Accord 1
Benton 1
Cayley 1
Carstairs 1
Crossfield 1
De Winton 1
Frank 1
Gleichen 1
High River 1
Hillsdale 1
Inniefail 1
Irvine 1
Kinsella 1
Lament 1
Langdon 1
Lochnew..... 1
Lundbrick 1
Livingstone 1
Mountain View 1
Olmston 1
Red Deer 1

Ivanrey 1
Bruno Lake 1
Bon Accord 1
Bowden 1
Chipley 1
Carnwith 1
Crossfield 1
De Winton 1
Innisfail 1
Olympian 1
Black River 1
Wildwood 1
Carnduff 1
Ivytown 1
Elkwood 1
Lacombe 1
Langdon 1
Lochinvar 1
Hartridge 1
Clive Estate 1
Bowmanville 1
Cheston 1
Red Deer 1

(b) Other Parts of the British Empire 241

England	136
Scotland	56
Ireland	41
Wales	6
Newfoundland	4
India	3
New Zealand	2
Australia	1
British Guiana	1
Ceylon	1

2. Foreign Countries 239

(a) United States.....188

North Dakota	18
Iowa	15
Illinois	14
Minnesota	11
Washington	11
Nebraska	10
Ohio	9
Michigan	8
Massachusetts	7
Pennsylvania	7
South Dakota	7
Missouri	6
Montana	6
New York	6
Utah	6
Wisconsin	6
Kansas	5
Oklahoma	5
California	3
Idaho	3
Indiana	3
New Hampshire	3
Colorado	2
New Jersey	2
Oregon	2
Vermont	2
Virginia	2
Louisiana	1
Texas	1
Wyoming	1
" U.S.A."	6

(5) Other Parts of the British Empire .....

3. Foreign Countries .....

(a) United States.....

"U.S.A." .....

(b) Countries other than the United States 51

Russia	10
Ukraine	8
Austria	5
France	5
China	3
Sweden	3
Belgium	2
Denmark	2
Poland	2
West Africa	2
Roumania	2
Finland	1
Germany	1
Japan	1
Norway	1
Mexico	1
Italy	1
Switzerland	1

II Countries not specified 72

Distribution of Students in the Province

The Home Addresses of the students represent one hundred and ninety one places in the Province. These are as follows:

Airdrie, Alhambra, Alix, Altona, Athabasca, Banf, Bashaw, Bassano, Bawlf, Bearberry, Beiseker, Bellis, Bellevue, Benalta, Bentley, Beverly, Bittern Lake, Bindloss, Blackfalds, Blairmore, Bottrel, Botha, Bowden, Brant, Bremner, Brooks, Brutus, Bulwark, Busby, Cadogan, Calgary, Calmar, Camrose, Carbon, Cardston, Carmangay, Carstairs, Castor, Cayley, Cereal, Cherhill, Chauvin, Chinook, Chauvin, Clareholm, Clive, Cluny, Coalhurst, Cochrane, Cold Lake, Colinton, Coleman, Compeer, Consort, Coronation, Cowley, Crowfoot, Craigmyle, Delroy, Dayeland, Delbourne, Delamead, Delia, Dewberry, Didsbury, Drumheller, Duffield, Dysart, Edmonton, Edgerton, Elnora, Erskine, Excelsior, Eyremore, Foremost, Forestburg, Fork Lake, Fort Saskatchewan, Gem, Gleichen, Grand Prairie, Granum, Gurneyville, Hanna, Halkirk, Hardisty, High River, Hillcrest, Hughenden, Innisfail, Irricana, Irma, Irvine, Isley, Jasper, Jenner, Keoma, Killam, Kinsella, Kitscoty, Lacombe, Lake Saskatoon, Lamont, Langdon, Leduc, Lakeshore, Lee, Leslieville, Lethbridge, Lloydminster, Loughead, Lundbruk, Magrath, Malet, Manneville, Medicine Hat, McLeod, Millarfield, Millet, Morningside, Morrin, Mountain Park, Mountain View, Morinville, Mundare, Munson, Nanton, Namaka, Nevis, New Brigden, New Dayton, New Lindsay, Okaton, Okotoks, Olds, Oneway, Oyen, Peace River, Pekan, Pincher Creek, Ponoka, Plamonda, Provost, Radway Centre,

Description of Highways in the Province

The three subdivisions of the secondary improved and widely used highways in the Province. These are as follows:

Raymond, Redcliff, Red Deer, Redwater, Rimby, Rocky Mountain House, Rodeno, Rosemary, Rosyth, Round Hill, Ryley, Scotfield, Sedgewick, Shepard, Skiff, Springdale, Spruce Grove, St. Albert, St. Paul de Metis, Standard, Stenmore, Stavely, Stettler, Stony Plain, Strome, Sturgeonville, Suffield, Sunnyslope, Taber, Three Hills, Thorhild, Tide Lake, Tofield, Usonia , Vauxhall, Vegreville, Vermilion, Veteran, Viking, Wainwright, Warner, Waskatenau, Wayne, Wealthy, Westlock, Youngstown, Zetland.

The Religious Affiliation of the Students in the University as shown by their Registration Cards

Presbyterians	392
Methodist	286
Anglican	224
Roman Catholic	103
Baptist	97
Hebrew	21
Lutheran	17
Mormon	13
Unitarian	13
United Church	9
Greek Orthodox	9
Congregationalist	7
Greek Catholic	4
Church of Christ	4
Quaker	3
Christian Science	2
Russian Orthodox	2
Salvation Army	1
Mennonite	1
Independent	1
Disciple of Christ	1
Free Methodist	1

The Religious Affiliation of the Students in the University
as shown by their Registration Cards

Presbyterian	302
Methodist	280
Anglican	254
Roman Catholic	203
Baptist	97
Hebrew	21
Unitarian	17
Mormon	15
Christian	10
United Church	9
Greek Orthodox	9
Congregationalist	7
Greek Catholic	4
Church of Christ	4
Quaker	3
Christian Science	2
Russian Orthodox	2
Salvation Army	1
Mennonite	1
Lutheran	1
Disciple of Christ	1
Free Methodist	1

Methodist Episcopal	1
Evangelical	1
House of Jacob	1
Christadelphian	1
Protestant	33
Non-denominational	1
None-in-particular	1
No preference	1
"None"	13
Not given	54

Indicative Subjunctive	1
Prospective	1
Tense of Touch	1
Chronological	1
Tenseless	32
Non-Inconditional	1
Non-In-Particular	1
In Particular	1
"Some"	32
Not Alive	54

Classification of Students by Occupation of Parents

Farmer	403
Merchant	109
Civil Servant	48
Clergyman	44
Contractor and Builder	43
Railwayman	41
Lawyer	40
Teacher	39
Physician	34
Mechanic	31
Broker and Agent	27
Engineer	24
Commercial Traveller	19
Clerk	18
Accountant	17
Grain Trade	15
Carpenter	15
Journalist	12
Dentist	11
Druggist	9
Sailor	8
Printer	8
Manufacturer	8
Millwright	7
Photographer	7

Classification of Buildings By Construction of Forms

Banker	7
Veterinary Surgeon	6
Soldier	5
Artist	5
Butcher	4
Baker	4
Watchmaker	3
Barber	3
Tailor	3
Florist	2
Auctioneer	1
Architect	1
Musician	1
Upholsterer	1
Tinsmith	1
Shoemaker	1
Optometrist	1
Draughtsman	1
Not specified	227

Note: The 227 is made up of Correspondence students and those taking the Short Course in Dairying, who are not asked to specify the occupation of their parents.

SCHOLARSHIP

On the whole, the academic work of the year has been carried out in a manner eminently satisfactory to the University authorities. The financial difficulties of the times unfortunately prevented a good many from returning. Their places were taken by others who had been forced to stay out of college during the preceding year.

The work of the Freshman Committee continues to be a great source of gratification. As has been previously stated, this committee is organized for the purpose of assisting freshmen to adjust themselves from their school course to the course at the University. Further, many students on coming to the University are not sure of the vocation which they are to follow afterwards. Both of these matters are very carefully watched by the Freshman Committee and wherever advice and help are possible, it is made available. During the year a questionnaire has been filled out by every freshman in the University. This has been made the basis on which helpful advice could be given to students after comparing their chosen course of study with the results of examinations.

As the result of a questionnaire, some very interesting facts were elicited from the students. For example, in the Faculty of Arts and Sciences about 50% of the total freshman registration answered the question- "When you entered the University why did you enroll in the Faculty of Arts and Sciences?"- by the statement- "To get a broad education" . With regard to vocational plans, it was found that 80% of the students entering the university had already at entrance matured plans for their future lives. 20% were still in doubt as to what occupation they would fill. As the result

of discussions with their advisers on the Freshman Committee about 20% havechanged their plans and are now heading for lines of work for which they seem more fitted. Altogether vocational enquiries were received from approximately 50% of the students of the freshman year.

The same class was asked to answer this question- "State any occupation in which you have been engaged other than that of a student". While the returns were incomplete the following list is probably indicative of the previous occupations of these students.

Teacher	43
Farmer	36
Clerk	36
Surveyor	8
Mechanic	7
Lumber-jack	4
"odd jobs"	3
Teamster	3
Laborer	3
"Business"	2
Carpenter	2
Sailor	2
Steam Engineer	2
Miner	2
Butcher	1
"Chautauqua"	1
Cream Grader	1
Dressmaker	1
Dairyman	1
Dentist's Assistant	1
Dietitian	1
Elevator Man	1
Electric Worker	1
Miller	1
Missionary	1
Journalist	1
Printer	1
Proof-reader	1
Telephone operator	1
Travelling Agent	1

of discussions with their advisers on the Vocation Guidance about 2½ hours per day and are now leading full-time lives of work for which they feel more fitted. Altogether wonderful results were received from practically 90% of the students of the Freshmen year.

The same class was asked to answer this question- "State any occupation in which you have been engaged other than that of a student". From the returns were tabulated the following list is probably indicative of the previous occupations of these students.

Teacher	40
Farmer	32
Clerk	26
Surveyor	6
Mechanic	5
Lumber-jack	4
"Odd jobs"	3
Tea-taster	3
Laborer	3
"Helper"	2
Surveyor	2
Sailor	2
Steam Fitter	2
Tinsmith	2
Motorman	1
"Chautauqua"	1
Grain Buyer	1
Treasurer	1
Driver	1
Lumber's Assistant	1
Dietitian	1
Clerk-in-U.S.	1
Newspaper Worker	1
Mail	1
Missionary	1
Journalist	1
Printer	1
Proof-reader	1
Telephone operator	1
Traveling Agent	1

With regard to the distribution of students, there has been much discussion during the year and many vague remarks have been made as to the extent to which the University is serving the public outside of the city of Edmonton. Definite statements have been made that the southern part of the province, that is the part south of Red Deer, has not been served by the University as has the northern portion. A complete survey has been made which shows the distribution as follows: 307 students are from Edmonton and 218 from Calgary.

There are about one hundred students who give their addresses as Athabasca Hall, Assiniboia Hall, Alberta College, etc., these being students who in the main are without home addresses at all but who are teaching or following some other pursuit in various parts of the province and who come to Edmonton for the winter for education. Leaving these out of consideration, an analysis shows that, with Red Deer considered as the dividing line between the north and south of the province, of those who give registered addresses five hundred and thirty eight are from north of Red Deer from a population of 304,661 , while from south of Red Deer there are four hundred and fifty one students representing a population of 294,393, taking the census of 1921 as a basis. As a matter of fact, the ratio of the student body is almost identical with the ratio of population, the ratio of students north to south being approximately 1.2, while the ratio of population is 1.1 . Leaving the two chief

cities out of consideration- Edmonton and Calgary- (there can be no doubt that the University being in Edmonton, the Edmonton students are more favorably situated) there were actually two students more from South of Red Deer in the University, last year, than from north of Red Deer.

This only goes to show what anybody, who will give a moment's serious thought, will at once recognize, that the question of travelling expenses from any part of the province to Edmonton is a matter of no consequence in estimating the cost to the student, as from $15 to $20 will buy a return ticket from any part of the province to Edmonton, while the total expense at the University for the year is approximately $500. I would also call attention to the fact that the actual cost of education for students outside the city of Edmonton, in comparison with that for students living in the city, has been greatly exaggerated. The cost of clothing and books is the same for all students. The University Residences, that is the board and lodging, are conducted approximately at cost, so that the difference between the cost to those living at home and to those in residence is reduced to a minimum.

I would like to call attention to one further fact. A census of the students from Alberta attending other universities shows that last year there were one hundred and four students studying at other universities in Canada. Of these fifty-three were medical students pursuing courses in the higher years and could not have attended

I would like to call attention to one further
fact. A census of the students from Alberta universities
other matters being about that year there were one
hundred and four women studying at other universities in
Canada. Of these fifty-three were medical students pursuing
courses in the higher years and could not have obtained

the University of Alberta. Eight were students in other faculties who were following courses not offered in this university. There were, however, forty-three students studying outside the province who might have been attending our own university. These figures are significant as showing how completely our own university is taking care of the student life of our own province.

Discipline and Medical Services

The following report of the Provost shows how the problems of discipline have been worked out during the year and also indicates the extent of the work of the Medical Services.

(a) Discipline

There have been no serious difficulties during the past session. The students occupying the various offices have always endeavored to discharge their duties faithfully and I feel that substantial progress has been made in carrying out the policy of encouraging students to assume the fullest responsibility for regulating their own conduct. The Students' Court which is officered mainly by members of the Faculty of Law has succeeded in commanding the respect and confidence of the student body. "The trials are open to all students and the fair and honest manner in which the students give testimony has contributed to the efficiency and justice of the court." For the first time in the history of the University a case has been referred by the University authorities to the Students' Court. The case was dealt with in a very judicial manner with general satisfaction to all concerned.

(b) Student Organizations and Activities

1. Students' Union

The affairs of the Students' Union have been very ably managed. Strict business methods have been insisted upon in the expenditure of all money. The books are kept in the Bursar's office and are audited by the Bursar. The

session ended with a surplus of $950.80 .

The elections in connection with the Students' Union were particularly keenly contested and there is an increasing desire on the part of the students to elect for the important positions those who are best qualified to fill them.

2. Athletics

In athletics the year has been an unusually successful one. The Rugby Team, for the first time, played the University of Saskatchewan. The score for the first game in Saskatoon was 8-3 in favour of Saskatchewan. In the second game at Edmonton, it was 23-0 in favour of Alberta, the University of Alberta thus winning the championship. The Track Team won second place in the Interuniversity Track Meet at Winnipeg, Manitoba winning first place by a large lead. In Association Football the University of Alberta won from the University of Saskatchewan 1-0 in the game played on our grounds. We also won the Pennant Cup for the City Intercollegiate title.

The Men's Basket-ball Team won the Rugby Cup, emblematic of the Western Universities championship, and the Gillette Cup which is awarded to the Provincial champions. It is interesting to note that our basket-ball score totalled 501 points to the opponents's 276.

The Women's Basket-ball Team won the Western Universities championship and the City Intercollegiate title.

The Women's Hockey Team won the Interuniversity championship.

During the session the regulations requiring satisfactory scholastic standing have been rigidly enforced

and the result was no hockey team. The students have acknowledged the justice of this regulation and have backed its enforcement. The regulation on scholastic standing has been changed to correspond to the regulation adopted by the Western Canada Intercollegiate Athletic Union. This regulation which has now been adopted by the Universities of Manitoba, Saskatchewan and Alberta requires that students playing on athletic teams must pass three-fifths of a full course of lectures of University grade. An endeavor is being made to get a uniform interpretation and administration of this regulation which when accomplished should avoid many of the difficulties which have been experienced during the past two years in interuniversity athletics.

What is probably the most noteworthy advance in athletics during the past session is the increased interest and participation of the student body in interfaculty and intercolege sport of all kinds. It is estimated by the President of the Students' Union that about 90% of the students have engaged in some form of recognized sport under the direction of the Athletic Association.

3. The Literary Association

The Dramatic Society has done excellent work during the session. The inter-year competition displayed a very high standard and the presentation of "Dear Brutus" was without doubt the most successful dramatic performance ever given in the University.

The Debating Society held four sessions of the Mock Parliament and also several meetings which took the form of debates, forums, and impromptu speeches. A large number of

students participated and through these channels debaters were trained who later represented the University against the Universities of Manitoba and Saskatchewan. Alberta finished second ,losing the championship to Saskatchewan by one point.

"The Gateway", the official publication of the Students' Union , published twenty-one issues. It has been much enlarged and improved in every way and an endeavor has been made to make it representative of the best student opinion.

In connection with the work of the Students' Union I should like to mention the very find work of the President, Mr. Robert L. Lamb,who has been selected as Rhodes Scholar for Alberta.

Medical Services

The work of the Medical Services has gone on very smoothly during the year under the efficient care of Doctors Gray and Mimnish and Nurse Hayes. We have had a few severe cases but with no serious results.

Donations

The University is in receipt of a donation from Mrs. Creasy of Hurstleigh, Windsor Forest, England, through the High Commissioner's Office, London, consisting of the volumes of the Proceedings of the Institute of Civil Engineers, the property of her deceased husband.

R. F. C. Reed, Esq., D. Sc., of Cambridge, donated to the Library, the Proceedings of the Cambridge Philosophical Society from the year 1906 and is sending the current numbers.

The Class of 1933 has had bound as its class memorial the set of Documents of the Peace Conference bequeathed by the late Right Hon. A.L.Sifton, and given to the University by the Hon. Charles Stewart. This set is now displayed in the Reading Room of the Arts Building.

An additional prize of $100 has been given by the Association of Professional Engineers of Alberta for a student in Mechanical Engineering.

A prize of books has been offered by Madame G. Cote to the non-French speaking undergraduate student in French 51 who makes the most progress in French.

A prize of fifty dollars has been offered by Mrs. R. B. Wells to the graduating student making the best record in a special examination in French.

The Carswell Company, Ltd., Publishers of Toronto, has offer three prizes of books to the value of twenty, thirty and fifty dollars to be awarded annually to the student making the highest averages in the first, second, and third year in the Faculty of Law.

Phonétique

The University is in receipt of a donation from
Mrs. Cheney of Strettonb,Hickson Street, Penhurst, through
the High Commissioner's Office, London. containing of the
volumes of the Proceedings of the Institute of Civil Engineers,
the property of Mrs deceased husband.

E. T. C. Prof, Mus., B. Sc., of Dunbridge,donated
to the Library,the Proceedings of the Dunbridge Philosophical
Society from the year 1908 and is sending the current number.

The Class of 1929 has had bound as its class memorial
the set of Documents of the Trans Continental Commission presented by the late
Hicks Pen. A.E.Hitchen, and given to the University by the
Hon. Charles Stewart. This set is now displayed in the
Reading Room of the Arts Building.

An additional prize of $100 has been given by the
Association of Professional Engineers of Alberta for a student
in Mechanical Engineering.

A prize of books has been offered by Prince G. Gobe
to the most-worthy matriculated students in French Si
who makes the most progress in French.

A prize of fifty dollars has been offered by Mrs.
E. B. Tevis to the graduating student making the best record
in special examination in French.

The Carswell Company, Ltd., Publishers of Toronto, has offered
three prizes of books to the value of twenty,thirty and fifty
dollars to be awarded annually to the students making the highest
averages in the first,second, and third years in the Faculty of Law.

The Association of Professional Engineers of Alberta have again this year repeated their awards of one hundred dollars cash to be made to the best student in Civil, Electrical and Mining Engineering.

The Alberta Optometry Association have given a sum of $255 to form the nucleus of a fund for the purpose of encouraging Optometry education.

Summer School

The University buildings and equipment were again used during July and August for the Summer School for Teachers conducted by the Department of Education. In addition, our Summer Session was held in the Faculty of Arts in which courses leading to a degree were offered. The attendance of those taking Teachers' courses as well as Undergraduate courses was smaller than in the preceding year due to the change in the policy of the government. It had been the practice in former years for the government to pay the travelling travelling expenses of those who attended the Summer School and in addition to pay the salaries of the instructors. This year, the work was put upon a self-supporting basis. All students paid their own travelling expenses and fees sufficient to pay the cost of instruction. It is of special interest to note that under these conditions two hundred and seventy teachers attended for the courses offered by the Department of Education and ninety four for the undergraduate courses offered by the University. While this changed to a certain extent the aspect of the Summer School from the point of view of numbers, there can be no question that the school itself was the most successful ever held. All of those who came did so with a desire to study and improve themselves. The result was the programme of work was carried out in a more intensive manner.

Of the students registered for University Summer School courses ninety-four were taking purely University work and not registered for Teachers' courses under the Department of Education. Of this number 49 were men and 45 were women.

The registration was as follows:

First Year-	French 1 and 3,	part	1,	13
	" " "	part	2,	9
	Mathematics 1,	part	1,	16
	"	part	2,	9
	Physics 1,	part	1,	17
	"	part	2,	9
Second Year-	French 4 and 5,	Part	1,	6
	" "	"	2,	6
	Chemistry 1	"	1,	11
	"	"	2,	8
	History 2	"	1,	7
	"	"	2,	8
	Mathematics 7	"	2,	7
Senior Courses-				
	Mathematics 62,	"	1,	8
	" 110,			11
	Psychology 61	"	1,	12
	" 86	"	1,	15
	" "	"	2,	5

Of the students registered for University Summer School courses ninety-four were taking purely University work and both registered for Teachers' courses under the Department of Education. Of this number 49 were men and 45 were women.

The registration was as follows:

First Year-	French 2 and 3,	Part 1,	13
	" " "	Part 2,	9
	Mathematics 1,	Part 1,	14
	"	Part 2,	9
	Physics 1,	Part 1,	17
	"	Part 2,	9
Second Year-	French 4 and 8,	Part 1,	5
	" " "	Part 2,	5
	Chemistry 1 ,	" 1,	11
	"	" 2,	8
	History 2 ,	" 1,	7
	" ,	" 2,	9
	Mathematics 7 ,	" 2,	7
Senior Courses-			
	Mathematics 22,	" 1,	8
	"	110,	11
	Psychology 23 ,	" 1,	12
	" 28 ,	" 1,	10
	" " ,	" 2,	8

Convocation

The Convocation for the year was held on May 16th,1923.

Total number of degrees granted-

In course 114
Ad eundem 13
Diplomas in Pharmacy... 13

The following persons were admitted to degrees in the University:

Admitted to the degree of Bachelor of Arts

Ballantyne,Jessie McIntyre
Barker, Lucile
Bramley-Moore, Alfred Gordon
Brown, James
Bromlee, Eva Anne
Bryan, George James
Chalmers, Helen Harriet
Churchill, Ernest Leroy(Second Rank Honours in Mathematics)
Dixon, Irma Augusta
Duclos, Geraldine Florence
Edwards, Cedric Gerald
English, John Frederic Kerr
Frazer, Irene Beryl
Geddes, Helen Emma (Second Rank Honours in Classics)
Gowan, Rivard Hunter
Gray, Harold Ellacott(First Class General Standing in Arts and Agriculture)
Grindley,Thomas William(First Class General Standing in Arts and Agriculture)
Hall,Robert Bruce
Herbert,Walter Bertram
Hickey,Elizabeth Euphemia
Hope Jean Terry
Jarrett, William Arthur
Jean-Richard,Marcel Edmond (Firt Rank Honours in Modern Languages)
Lamb, Robert Lincoln
Lukaschuk-Lucron,Henry Roman
Martin,Edith Mary Foster
MacEachran,Marion Mae
MacFarlane,Agnes Winnifred
MacLennan,Ruth
McClung,John Wesley
McIntyre,Beulah Marie
Moss, Raleigh Walter
Muir,Charles Keith
Murray,Mary Augustine
Richards,Dorothy Freda (First Rank Honours in Modern Languages)
Rudd, Frederick Albert
Shanks, Margaret Stevenson

Convocation

The Convocation for the year was held on May 18th, 1922.

Total number of degrees granted-

In course 124
At exams 13
Diplomas in Pharmacy... 19

The following persons were admitted to degrees in the University:

Admitted to the degree of Bachelor of Arts

Shankman, Harry
Simmons, Marberie
Stewart, Neil Martin
Wees, Wilfred Rusk (First Rank Honours in Philosophy)
Willis, Ernest MacPherson

Admitted to the Degree of Bachelor of Arts, Ad Eundem

Best, Edgar Leslie, B.A.
Broadbridge, Rose Priscilla, B.A.
Deadman, Edith Frances, B.A.
Morrison, Barbara Robina, B.A.
Morrison, Helen Kathleen, B.A.
Shaver, Alice, B.A.
Senet, Edouard, B.-es-L
Walton, Jean Cameron, B.A.
Wilkie, Ada, B.A.
Willis, Charles, B.A.

Admitted to the Degree of Bachelor of Commerce

Allan, Donal Hendry
Page, Robert Henry Constant
Palmer, Max Bayard

Admitted to the Degree of Bachelor of Science in Arts

Campbell, William Paton (Second Rank Honours in Chemistry)
Dowding, Eleanor Silver
Fisher, Harry
Hegler, Florence Helene
Lang, William Albert
Mair, Beveridge James (First Rank Honours in Chemistry)
Pegrum, Reginald Herbert
Shaw, Olive Jennie
Simpkin, Melville Mary
Taylor, Geoffrey Bradford (Second Rank Honours in Physics)
Wilson, George Leslie

Admitted to the Degree of Bachelor of Science in Household Economics

Carmichael, Bernice
Raver, Irma Carolyn
Roth, Edna Irene
McLaughlin, Iona Estelle

Admitted to the Degree of Bachelor of Science in Household Economics, Ad Eundem

Gladstone, Grace Truman, B.Sc.

Admitted to the Degree of Bachelor of Arts, All Souls

Bond,Edgar Evelin,B.A.
Brockhurst,Rosa Felicity,B.A.
Dawson,Ruth Vernon, B.A.
Horrison, Barbara Robins, B.A.
Morrison, Helen Matilda, B.A.
Shaver, Alice, B.A.
Stone, Richard, B.-ce-E
Wilson, Jean Cameron,B.A.
Wylie, John, B.A.
Willis, Cherlon, B.A.

Admitted to the Degree of Bachelor of Commerce

Allen, Doyal Morley
Page, Robert Henry Constant
Palmer, Max Leonard

Admitted to the Degree of Bachelor of Science in Arts

Campbell, William Ruthven (Second Rank Honours in Chemistry)
Dowling, Eleanor Hilyer
Hiller, Harry
Keglan, Florence Elaine
Lucas, William Albert
Muir, Beveridge James (First Rank Honours in Chemistry)
Pearce, Reginald Herbert
Shaw, Clive Jennie
Simpkin, Dorothy Winifred (Second Rank Honours in Physics)
Taylor, Geoffrey Bradford
Wilson, George Leslie

Admitted to the Degree of Bachelor of Science in Forestry Honourable Mention

Cammidge, Horace
Evans, Iven Gwelyn
Ford, Edwin Irvine
Hodgkinson, Iona Estelle

Admitted to the Degree of Bachelor of Science in Pharmacy
Honourable Mention

Blackstone, Grace Evelyn, B.Sc.

Admitted to the Degree of Bachelor of Science in Pharmacy

Bennett, Margaret Victoria
Corbutt, Amy Eleanor (with First Class General Standing)
Hardin, Nahum Moses
Fowling, Henry Murray
Russell, Margaret Barr

Admitted to the Degree of Bachelor of Science in Civil Engineering

Barnacut, Reginald
Glen, Herbert Douglas Stewart

Admitted to the Degree of Bachelor of Science in Mining Engineering

Burgess, Wilfre Duncan
Hnatyshyn, Andrew Charles
Jackson, Alexander Bloomer
Jewitt, William Gladstone
McDonald, William Leslie
Richards, Russell
Whitman, Frederick Primrose

Admitted to the Degree of Bachelor of Science in Engineering Physics

Reid, Charles David

Admitted to the Degree of Bachelor of Science in Agriculture

Bayfield, Edward Geoffrey
Biraud, Felix Paul
Brown, William Redman
Cairns, Andrew (First Class General Standing)
Cross, John Selkirk
Elliott, Russell Howard
Hoskins, Charles Leonard
Marryat, Sheila
McAllister, John Wilfred
McKinnon, Donald James
Richardson, James Wesley
Robinson, Samuel Clifford

Admitted to the Degree of Bachelor of Laws

Blain, Lysle Kellogg
Clarke, Roy Percy
Dobry, Christine Antionette
Duff, Sibella Mary Gwendoline
Henry, Kelley
Jones, James Ismael
Kronick, Israel Robert
Macdonald, Hugh John
Moore, George Gerald Logan
Van Buren, Hazel

Admitted to the Degree of Master of Arts

Anderson, Ada Augusta, B.A.
Bosenworth, Hubert, B.A.
Broadus, Kemper Hammond, B.A.
Diller, Dorothy, B.A.
Gardiner, Bessie Dow, B.A.
Hadley, Robert Wesley, B.A.
McLeod, William Joseph
Morrison, Barbara, B.A.
Mulholland, Elsie, B.A.
Race, Cecil Ethelbert, B.A.
Taylor, John Gladstone, B.A.

Admitted to the Degree of Master of Science in Arts

Sanderson, James Owen Gresham, B.Sc.
Morgan, Stanley Chapin, B.Sc.

Admitted to the Degree of Master of Science in Agriculture

Manna, William Fielding, B.A., B.S. A.

Admitted to the Degree of Bachelor of Divinity

Bainbridge, Sidney, B.A.
Kirk, Joseph Elmer, B.A.

Admitted to the Degree of Bachelor of Education

Laycock, Samuel Ralph, M.A., B.D.

Admitted to the Degree of Doctor of Medicine, Ad Eundem

Johnson, George, M.D.
McBride, Clifford Dawson, M.D.

Diplomas in Pharmacy

Cameron, George
Cohen, Bernard
Colyman, Charles Campbell
Claxton, John Featherstone
Douglass, William Ross
Hooker, William Ernest
Henderson, John Douglas
Lackey, Hamilton Rogers
Lewis, George Allan
McPhee, Miles Shatford
Scott, Lola May
Stiles, Edgar Norman
Third, Clayton Thomas

Admitted to the Degree of Master of Arts

Bryerson, John Augustus, B.A.
Beaconsfield, Robert, B.A.
Dearborn, Timothy Edmund, B.A.
Dallas, Dorothy, B.A.
Hamilton, Dennis Cary, B.A.
Reilly, Robert Wesley, B.A.
Wolcott, William Joseph
Harrison, Thomas, B.A.
Mulholland, Viola, B.A.
Munn, Cecil Nicholson, B.A.
Taylor, John Chesterton, B.A.

Admitted to the Degree of Master of Science in Arts

Sanderson, James Owen Gresham, B.Sc.
Warren, Stanley Clowsley, B.Sc.

Admitted to the Degree of Doctor of Science in Hygiene

Munn, William Whitelaw, L.R.C.P., M.R.C.S.

Admitted to the Degree of Doctor of Divinity

Hotchkiss, Sidney, D.D.
Kirk, Joseph Fleet, D.D.

Admitted to the Degree of Doctor of Theology

Hancock, Samuel Kirk, M.A., B.D.

Admitted to the Degree of Doctor of Medicine, ad Eundem

Johnson, George, M.D.
Stanley, Clifford Bacon, M.D.

Diplomas in Pharmacy

Cameron, George
Ogden, Dennis
Grimmer, Charles Campbell
Clarke, John Sherwood
Kerrigan, William Hoey
Warren, William Bryson
Sinclair, John Campbell
Hunter, Hamilton Rogers
Davis, George Allen
Lyons, Allan Bedford
Quick, Lola May
Bailey, Mary Dorcas
Tyrrel, Clayton Fraser

Professional Examinations

Since Convocation, 1932, the following persons have passed the examinations for Licence to Practise, conducted by the University on behalf of the Affiliated Professional Societies:

Accountancy-	Donaldson, William; Ford, H.W.; Longmire, E.C.; Ross, D.A.
Medicine-	Woolf, Wilfrid
Nursing-	Anderson, M.A.; Batter, V; Best, M.E.; Boucher, Y.; De Beaudrop, Sr. Y.; Boyle, P.; Callahan, E. B.; Clapperton, M.A.; Copley, J.; Dale, M.U.; Davies, F. M.; Field, Mrs. L.; Filker, P.A.; Girard, L. M.; Griffiths, M.; Good, B.S.; Gow, M.E.; Hall, V.A.; Havens, V. E.; Hennig, M.M.; Hill, O.G.; Kerr, T.; Knight, E.M.; Krause, A.; Lemoureux, L. B.; Lemiry, A.; Le Clerc, A.M.; Love, Mrs. F.A.; Mason, E.E.; Myrtha, E.K.; Overton, G.; Parker, S.M.; Pratte, E.A.; Robertson, M.M.C.; Sandell, A.; Schumm, A.; Solberg, L.; Terry, W.E.; Vipond, E.M.; Vandersegon, E.; Warren, O.; Williams, I.C.; Worthington,
Optometry-	Newman, Harold.
Pharmacy-	Bennett, A.T.; McBride, C.D.; Richardson, S.
Surveying-	Cormack, A.; Gibbon, J.; Snell, C.H.

Subnormal Children

In May 1932, on the initiative of a member of the Senate, a committee was appointed for the purpose of studying the question of sub-normal children. During the year, a body of valuable information was collected and a thorough scientific statement of the whole problem prepared and submitted to the Senate. It is hoped that this valuable document will be of great service in dealing with this problem.

Medical Faculty

It is a pleasure to report that our Medical Faculty has received special recognition by the American Medical Association, having been given Class "A" standing among the medical colleges of America. It is probably a unique experience that an institution so young has secured such standing. The Medical Faculty is continuing to have the support of the Rockefeller Foundation, the grant for the year for the up-keep of the medical school being $25,000, making the total received from the Rockefeller Foundation to date, $100,000. The good-will shown to us by the Rockefeller Foundation has received grateful appreciation at the hands of the Board of Governors.

National Treasury

The Canadian Universities Conference:

The Canadian Universities Conference was held last June at Kingston. Three matters of very great interest were discussed which without question will bear fruit in the future. The first was the relation of the universities to research, the second, the better organization in Canada of medical education and the third, the possibility of founding a Canadian graduate school and of laying down a scheme for courses of study which would make it possible for students from all the younger universities to enter on a basis of equality.

The Canadian Universities Conference:

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Public Health Laboratories

The figures for the year 1923 are not available at the moment of writing but will be found in Appendix III which will be attached to this report. During the year 1922, however, approximately 12,000 specimens sent in by the medical profession of the province for diagnostic purposes were examined and reported upon, an increase of about 20%. The cash value of the work based on normal laboratory fees would have been at least $55,000.

Note- Since writing the above, the figures for the current year have come to hand and show a greatly increased amount of work, the estimated value of which is $60,934.

Extension Department

The work of the Extension Department for the year has been carried on with great vigor and success. The three working members of the department have delivered three hundred and ninety eight lectures to audiences outside the University with a total attendance of over 45,000.

Extension classes in Economics have been carried on in the Calgary Trades and Labor Council, at the Calgary Y.M.C.A.; in the Edmonton Trades and Labor Council; and to labor and farm groups in Canmore, Rosedale, Big Valley, Munsie and Ponoka.

Further, a demand was made upon the department by labor and farm groups at various centres for the establishment of a course of lectures to be associated with correspondence work. These lectures were given, books prescribed, directions given and essays read for one hundred and twenty-five persons. The subjects taught were mainly those connected with the fundamentals of Political Economy, the aim being to give the persons seeking the information a grasp of general ideas.

The Open Shelf Department of the Extension Department Library reports that for the past year there has been a circulation of 8,543 volumes, an increase of 1710 volumes for the year.

In addition, the Travelling Library Department which now contains two hundred and thirty two small libraries had a circulation of nearly 20,000 volumes. Forty-five special libraries made up to meet the demands of certain groups,

had a circulation of over eight hundred and sixty volumes.

These libraries served one hundred and thirty community groups; forty school districts; fifty one U.F.A. and twenty-four U.F.W.A.; ten Women's Institutes and forty-one other organizations, a total of two hundred and ninety six communities.

The lantern slide and film service was also in great demand during the year, the circulation having increased about 60% above that of the preceding year. Sixteen hundred and thirty one lantern slides were shown twenty eight hundred times. The total attendance at the associated lectures amounted to one hundred and fifty-five thousand, seven hundred. In addition, the film service was used five hundred and eighteen times during the year with an aggregate attendance of over forty-nine thousand.

As part of the Extension work for the year, the week for Young Farm Persons was held with an attendance of seventy three, slightly under that of the preceding year.

Full particulars of all matters in connection with the Department of Extension will be found in Appendix II.

Research Council

During the year, the research work under the Research Council of the Province of Alberta has been carried on vigorously and considerable progress has been made. Special attention has been given to the two problems of our coals and our road materials. The small briquetting machinery which was ordered ,last year, arrived and has been set up in the research laboratories. The problem of carbonizing has received continued study. A variety of binders have been tried out with various degrees of success, among others the residue from the tar sands. It has been tested out and found to be efficient and a good many samples of briquettes have already been made from the various coals brought to the laboratories.

The work begun,last year, on methods of storage has been carried forward and the experience acquired will without question lead to improved methods of storage for our Alberta coals.

A series of experiments was been carried on during the year, testing the efficiency of the various kinds of domestic heaters used in the province,in order to suggest improvements in relation to our fuels and to determine their comparative value. Some results have been given to the manufacturers with suggestions as to improvements which will without question bear fruit in the future.

In co-operation with the Mines Branch of the Government a study of our coal fields has been carried on with a view to determining by chemical analysis the relative

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In co-operation with the Mines Branch of the Government a study of our coal fields has been carried on with a view to determining by chemical analysis the relative

value of the various coals coming from the producing mines of the province. This has been done to assist the department in its effort to extend the market for Alberta coals.

The work in regard to the survey of the coal fields of the foot-hills, which was begun last year under the direction of Dr. Allan, was continued during the current year. Substantial progress has been made, the details of which will be set out in the Report of the Research Council for 1923. In addition to the above, the Research Department had under its direction, in co-operation with the Mines Branch, the operations in connection with the boring for salt in the McMurray district.

The study of the materials of the tar sands areas has been continued during the year and much new information has been obtained. The process advised by Dr. Clark and described in last year's annual report has been perfected and over one hundred tons of material separated. This has been actually put to a practical test on a short strip of road which was built during the summer. Time is now required to show the value of this as road material.

It is also worthy of mention that recently the contact between the Research Council of the Province of Alberta and the Honorary Advisory Council for Scientific and Industrial Research of the Dominion of Canada has been more closely established through the appointment of the President of the University to the Honorary Chairmanship of the Research Council. The effect of the work of the Honorary Advisory Research

Council upon the development of Alberta has already had definite significance as the following grants by the Honorary Advisory Council show:

In 1920-21 Julius Ferdinand Lehmann held a Research Council Studentship to the value of ..... $500 for work in the Department of Physics under Dean Boyle.

The Air Research Committee of the Honorary Advisory Council for Scientific and Industrial Research has given grants over a period of three years amounting to ..... $3500 (1920-$1000; 1921- $1500; 1922-$1500; 1923-$500) These grants were to aid in the research work done by Professor C.A. Robb in connection with the starting of an aero engine in cold weather.

In 1921, a grant was given to Dean R. W. Boyle for work done in the Department of Physics $5000

In 1922, a grant was given to Professor S. Smith in connection with the work of the Air Board ..... $ 500

In 1923, a grant to Professor Lehmann for continuing the study of the chemical substances in the bituminous sands $1000

In 1923, a grant to Professor F. J. Lewis of..... $ 400 for expenses in connection with researches on the seasonal changes in food materials in evergreen leaves.

In 1923, a grant to Professor Collip for continuing the study of insulin $3000

In 1923, a grant to Professor R. Newton of..... $2000 for continuing the study on the nature of the winter hardiness in wheat.

In 1923, a grant to Professor H.J.McLeod of ..... $ 600 for an investigation in relation to electric dynamos.

In 1923, to Mr. W. J.K. Harkness the sum of ..... $800 for the beginning of a study of the breeding methods of the sturgeon. Although this work is being done in the lakes of Ontario for the present, it is believed that it will have great significance in relation to the fisheries of the northern lakes of the Province of Alberta.

Two other applications are under consideration at the moment, one from Professor Alan Cameron for $2500 to investigate commercial methods for the de-ashing of the bituminous coals of Alberta. This investigation has been undertaken in the hope that some simple method may be found for purifying our coals at the mines so as to enormously increase their value for shipping long distances. The other from Professor R. S. L. Wilson for $2500 for the beginning of a study of methods in connection with the economical utilization of some of the forest areas of the Province.

That the work of the University is being appreciated by other institutions is shown by the number of its graduates enjoying bursaries and scholarships for the purpose of graduate study at other universities :

E. C. Bayfield,B.S.A.,'23, is now at Macdonald Agricultural College,Quebec, holding a Macdonald Registered Scholarship.

K. H. Broadus, B.A., '22, M.A. '23, is at Merton College, Oxford,under an award by the Rhodes Trust.

Andrew Cairns, B.S.A. '23, won a scholarship at the University of Minnesota and is now taking post-graduate work in Biochemistry.

E. L. Churchill, B.A. '24, won a scholarship in Mathematics at the University of Chicago.

Alexander J. Cook, B.Sc. (Alta) '20; M.A.(Harvard), has been awarded one of the Shattuck Scholarships in Mathematics at Harvard, and is pursuing studies towards a Ph.D.

W. F. Hanna, B.A. (Dalhousie), B.S.A.'22 and M.S.A. '23 (Alberta) has won the Canadian Society of Technical Agriculturalists' scholarship,tenable at the University of Manitoba.

Robert L. Lamb, B.A. '23, is the 1923 Rhodes Scholar and is now at Merton College, Oxford.

J. F. Lehmann , B.Sc. '20, M.Sc. '22, has won an 1851 Exhibition Science Research Scholarship, three of which are available in Canada,each year. He is now studying in the Cavendish Laboratories, Cambridge,under Sir Ernest Rutherford.

Charles D. Reid, B.Sc.,'23 is studying at the University of Alberta, having received a scholarship from the Honorary Advisory Council for Scientific and Industrial Research.

S. C. Robinson, B.S.A. '23 won the Milton Harvey Scholarship at Macdonald College, Quebec.

J. C. G. Sanderson, B.Sc. '21, M.Sc. '23 won two scholarships, one from Yale University and the other an award from the Honorary Advisory Council for Scientific and Industrial Research. He chose the latter, and is now studying at the University of Alberta.

C.B.Sandford, B.S.A. '20 , has won a scholarship at the University of Minnesota.

Carl Scholl, B.S.A. '18,won a scholarship at the University of Minnesota and also one at the University of California. He accepted the latter, and is now studying at Berkeley.

I attach,herewith, as Appendices to this Report the following special reports:

The Report of the Faculty of Agriculture,as Appendix I.

The Report of the Department of Extension,as Appendix II.

The Report of the Provincial Laboratory,as Appendix III.

The report of the Industrial Laboratory,as Appendix IV.

The Report of the Publications and Research done by Members of the University Staff, as Appendix V.

I attach,herewith, as Appendices to this

Report the following special reports:

A P P E N D I X I

THE REPORT OF THE FACULTY OF AGRICULTURE

REPORT OF THE COLLEGE OF AGRICULTURE

FOR THE YEAR 1923

The enrolment of students in the College of Agriculture for the year 1923 was as follows:

Spring Term

First Year	27
Second Year	28
Third Year	12
Combined Course - Arts and Agriculture	11
Household Economics (Girls)	6
Graduate Course	3
Total	87

Fall Term

First Year B.S.A.	25
First Year B.Sc.	10
Second Year B.S.A.	13
Second Year B.Sc.	2
Third Year B.S.A.	10
Third Year B.Sc.	14
Fourth Year B.Sc.	10
Combined Course - Arts and Agriculture	5
Graduate Students	9
Household Economics (Girls)	6
Special Students	1
Total	105

REPORT OF THE COLLEGE OF AGRICULTURE

FOR THE YEAR 1920

The enrollment of students in the College of Agriculture for the year 1920 was as follows:

Spring Term

First Year	87
Second Year	58
Third Year	18
Combined Course - Arts and Agriculture	11
Graduate Course	8
Special Students (Dairy)	6
Total	187

Fall Term

First Year	80
Third Year	10
Second Year	12
Second Year	8
Third Year	10
Third Year	14
Fourth Year	10
Combined Course - Arts and Agriculture	8
Graduate Students	9
Homemaker Course (Girls)	6
Special Students	1
Total	168

It will be noticed that there is an increase of 18 students over last year's enrolment. The difference in the classification is caused by the fact that a new degree course in agriculture was offered at the opening of the fall term of 1923. Under the previous arrangement only students from the Schools of Agriculture, or those possessing similar credits, were admitted to our B.S.A.course. Under the new arrangement a four year course of the full University year, with the usual matriculation requirement for entrance, is offered; this course leads to the degree of B.Sc. in Agriculture. Students from the Schools of Agriculture are admitted to this course if they have matriculation standing, and are given one year's credit at entrance on this four year course. By this change Agriculture is placed on exactly the same footing in the University as all other Faculties, and our degree will receive recognition at all approved colleges.

There has been an increase in the number of graduate students. The College of Agriculture has the trained staff necessary to put on this work in some departments; already attention is being attracted from outside the province to this work.

It will be noted that there are six students entered for the degree of B.H.Sc. These girls are from the

Schools of Agriculture, this part of the Domestic Science work being under the direction of the Faculty of Agriculture.

Graduates of the College of Agriculture have been particularly successful this year in winning recognition from other institutions. Following is a list of the scholarships and fellowships won by the graduates:

E.C. Mayfield	- Scholarship at Macdonald College awarded by the Wm. C. Macdonald Registered.
S.C. Robinson	- Milton Hersey Scholarship, offered through Macdonald College.
Andrew Cairns	- Fleischmann Scholarship, offered through the University of Minnesota.
W.F. Manna	- Scholarship offered by the Canadian Society of Technical Agriculturists. First offered in Canada; won in Dominion wide competition.
A. Dingwall	- Part time student, Scholarship offered by the University of Minnesota.
G.B. Sanford	- Scholarship offered by the University of Minnesota.
Carl Scholl	- Fellowships offered by the University of Minnesota and California. Elected to accept California appointment.

This is a record not often equalled.

Elsewhere reports will be given of those Departments connected with the Faculty of Agriculture which are not directly agricultural. Our students have courses in Chemistry, Physics, Biology, Bacteriology, Zoology, political Economy, English, and Mathematics. This work is put on by the departments which serve all the Faculties of the University.

RECORD OF THE COLLEGE OF AGRICULTURE FOR THE YEAR 1909

Following is a report by departments of what may be described as the directly agricultural work of the College.

DEPARTMENT OF POULTRY

No courses are given in this Department although space has been left for such on the time-table. An instructor in poultry was not provided to take the place of Professor Bergey who resigned two years ago. Now that we have students coming to us directly from the high schools it becomes doubly necessary to provide an instructor in this important department, and to begin the establishment of a poultry plant for breeding and experiment.

DEPARTMENT OF AGRICULTURAL ENGINEERING

Three courses are given, Farm Machinery, Farm Motors, Farm Buildings.

This Department gave assistance in three short courses during the year: International Harvester Co. in Edmonton; a course put on by the Department of Extension at Red Deer; and a course given to Farm Young People.

In June assistance was given in judging at plowing matches put on by the Department of Agriculture. In addition to the foregoing several special trips were

Following is a report by departments of what may be described as the directly agricultural work of the College.

made to investigate certain problems.

A bulletin on Plows and Plowing has been published and the manuscript of another on rope work is ready for the printers.

A good many letters were received asking for assistance in matters pretaining to farm mechanics. Acknowledgement is here made to the different Agricultural Implement Companies who have assisted by providing machinery for our laboratory; one company has over $4000. worth of equipment in our laboratory. The Department of Agricultural Engineering is handicapped for lack of space, otherwise even more laboratory equipment would be furnished free.

DEPARTMENT OF HORTICULTURE

The growing season of 1923 was one of the most favourable for tree growth experienced for some years. Trees, shrubs and bushes in the wild produced bloom in profusion and fruit set in such abundance as has not been seen for years. The same was equally true of the cultivated fruits indicating wonderful returns possible if more attention were given to these valuable aids to the home.

The bush fruits did particularly well. There was no winter killing even where they were unprotected. So favorable was the growing season that raspberry canes made a growth of five and six feet, as compared with about three

made to investigate certain problems.

A bulletin on Plums and Pruning has been published, and the manuscripts of another on Peaches are nearly ready for the printers.

A good many lectures were received during the year, and some in addition were furnished to farm meetings. Members of the staff have made trips to the different agricultural districts of the State, and have assisted by providing machinery for our laboratory. The economy has been great. Most of the equipment in our laboratory, the department of agricultural engineering is handicapped for lack of space, otherwise even more laboratory equipment would be furnished free.

PUBLISHING OR PRINTING PAPER

The growing season of 1929 was one of the most favorable for the growth experienced for some years. Spring, storage and damage in the wild produced bloom in profusion and fruit set in such abundance as has not been seen for years. The case was equally true of the cultivated fruits inducing wonderful returns rewarding if more attention were given to these valuable aids to the home.

The rush fruits did particularly well. There was no winter killing even where they were unprotected. In favorable was the growing season that yesterday annex made a growth of five and six feet, as compared with about three

last year. The yield was well up to the average of the past years in spite of the short canes.

The yield of red and white currants was better than, and that of the black currants much above, the average. One variety of black currants gave a yield at the rate of $1000.00 per acre, another over $1200.00 and a third $1685.00 per acre. A wild black currant cultivated in the garden for some years is promising well. A few varieties of red and black currants were set out.

Eighteen varieties of strawberries grown in the open without protection were all killed. There is no question that this was helped by the shortage of moisture as well as lack of protection.

There was considerable freezing back of the new growth of the apple trees and also an increase of fungus disease among the trees due to black heart trouble which has been very prevalent. So serious has this condition become that it may be advisable to destroy the trees and start over again.

The cultivated crab-apples have not stood the test any better, and will be removed next spring to make way for a new lot.

The crosses with the wild crab of Siberia - Pyrus baccata - have all proven hardy, starting each year from the

terminal bud. Of these the earliest is Silvia. One tree of this variety bore its third crop, and two other trees their second crop this year. The apples are a pale yellow in color and from an inch to an inch and a quarter across, and an inch and a half in length. Two trees of a second variety - Jewell - fruited for the second time, giving a smaller apple averaging about an inch in diameter and one and a quarter long, but more tart in flavour and a harder apple. Both varieties made excellent jelly. Both these varieties can be grown in any garden.

This year several trees of the wild Siberian crab gave heavy yields of apples a little better than one-half inch in diameter. Seed was saved from the largest of these trees for a stock of seedling trees for grafting and instruction purposes.

A very promising fruit is a cherry plum cross. The plants grow as bushes rather than trees and bear a nice quantity of purple colored fruits, low down on the branches. Only one of three varieties fruited this year bearing its third crop. These cherry-plums are from an inch to an inch and a quarter in diameter and made a jam of very superior flavour.

The row of saskatoons gave an astonishingly large yield of fruit again this year. This is now four heavy

crops in succession. It would appear that there are possibilities in this fruit that have been overlooked.

There was some winter killing among the perennial flowers, one or two varieties, that have stood the test for years, dropping out. Among the perennials deserving special mention are the peonies, irises, lilies and the bleeding heart. They are all hardy, well known old flowers, and do well in the flower border. They should be given a trial. To these can be added some forty of fifty other hardy perennials that can be recommended to grow in the border making a profusion of bloom.

The permanent plantings of trees and shrubs about the grounds came through the winter without a failure. Additional plantings were made, particularly caragana hedges, about 1300 ft. in length; in all, over 3000 shrubs and trees were lifted and planted: all made good growth. Quite a few of the Russian poplars made over four feet of growth.

Virginia creeper of the self clinging kind having done so well on the Arts Building, cuttings were taken and now plants have been set out around the other buildings.

DEPARTMENT OF DAIRYING

In addition to the regular academic work of three full year courses given by this department to students in agriculture, two short courses for professional dairymen

were put on, January 8th to 19th, and March 12th to 23rd, 1923. Twenty students attended the former and thirty-six the latter course, making a total of fifty-six students This was a satisfactory response to the announcement of the courses which was circulated among the dairy factory operators of the Province. The announcement was confined to this field for the reason that our laboratory facilities can accommodate only a limited number of students. In the March course we became so crowded that the class had to be subidvided and one of the adjoining engineering laboratories was placed at the disposal of this Department during the course.

Experimental Work

The Department has under way some special work upon which no report should yet be made. It is hoped, however, that it may be sufficiently advanced this year to be of considerable value to the industry for the coming season's operations.

DEPARTMENT OF ENTOMOLOGY

Three courses in Entomology were given by this department.

During the summer about half time was devoted to assisting the Department of Agriculture in its campaign for the control of grasshoppers. The organisation and control measures adopted in the summer of 1922 had been so successful that the spread of this destructive pest had been

definitely checked, and only in comparatively small districts of the infested area were conditions such that personal advice and supervision were necessary. A local outbreak of the Roadside grasshopper which threatened to occasion serious losses occurred in the Grand Prairie region of the Peace River district. The majority of farmers of this region were unfamiliar with the habits and control of this pest, with the result that early in the season little attention was paid to the enormous numbers of small hoppers that had hatched out in the sod. At the request of the Department of Agriculture, Grand Prairie was visited during the latter part of May, and by means of addresses and field demonstrations, a campaign was inaugurated which resulted in the establishment of energetic control measures throughout the threatened territory.

A serious situation arose later in the season in the extreme southern portion of the province. In the adjacent State of Montana, on account of an ineffective campaign of eradication in 1922, the Lesser Migratory Grasshopper was entirely beyond control in the spring of 1925. Not only were some 500 square miles of territory in that State entirely denuded of all growth other than native sod, but frequent migrations northward from this devastated region seriously menaced the splendid crops of southern Alberta. Serious losses were avoided by the use of exceptionally

large quantities of bait in this territory, but it is feared that there has been an inevitable reinfestation that will necessitate a continuation of the campaign in 1924.

The infested area of Montana was visited, and the conditions encountered there constituted an indubitable vindication of the policy that was adopted in Alberta in 1922 upon the recommendation of this Department. It is now seen that, owing to the adoption of a more "economical" campaign in Montana in 1922, the resulting losses in one county far exceeded, in 1923, the entire cost of the campaign in the infested area of Alberta.

Since it was seen that the southern portion of the Province was menaced by a serious reinfestation from the devasted region of Montana, communication was established with the State Entomologist regarding the feasibility of a conference for a discussion of the best method of dealing with the situation. This resulted in the promise of an improved campaign in Montana during the spring and summer of 1924.

The outbreak of the Forest Tent Caterpillar throughout the northern portion of the province did not receive as close attention as was desirable, since it occurred simultaneously with the most active period of the grasshopper campaign in the south. Its causes, and probable length

of duration were however, investigated. Numerous letters regarding this pest were answered, and in press articles and an address the best methods for its control were outlined.

Other pests, regarding which information was requested by correspondents, included:- Cutworms, Wireworms, Flea beetles, Currant Sawflies, Currant Maggots, Turnips-beetles various plant lice, Wheat-stem Sawflies, etc.

Little definite information regarding the habits, and control, of many of these insects in the northern portion of the province is available, and it is especially desirable that a biological study of the wireworm fauna of the province be made. Correspondence received by this Department indicates that these insects occasion considerable damage annually, and that the habits of some of the species are so much at variance with those of the species that are most destructive in the southern portion of the province that no general recommendations for their control can be given.

Owing to the lack of necessary equipment for investigational work, no investigational work could be attempted during the year. All available time was given to the collection of material for the class-room and for the reference collection of the insect fauna of Alberta. A cabinet for the latter has been procured and all available

REPORT OF THE DOMINION OF ENTOMOLOGIST FOR THE YEAR 1922

named material is being transferred to it.

DEPARTMENT OF SOILS

The progress of the work of the Department of Soils for the year 1923 is as follows:

Owing to the decrease in appropriations it was necessary to dispense with the services of two of our staff. The remaining members of the staff have continued the work on the soil survey report for the Macleod sheet; for which the analytical work was completed in July. The results have since been tabulated.

Chemical and mechanical analyses were made on approximately 200 samples of soil, representing the seven most important soil types of the Macleod sheet, and covering an area of about 2, 235,000 acres. Of this about 11 per cent is eroded area, river bottoms, and mixed types in general, largely unsuited to farming. About 9 per cent is sand, and 12 per cent sandy loam, or 21 per cent of the lighter classes and about 68 per cent of the more desirable soil types. It was found that only slightly more than 50 per cent of the total area was devoted to crops, and that of all the crops, wheat and oats constitute from 92 to 95 per cent of the total, with about four or five acres of wheat for each acre of oats.

The fertility invoice of the sands is only about one-half that of the better types of soil, whereas the sandy

Progress of soil survey

The progress of the work of the Department of Soils for the year 1912 is as follows:

Owing to the decrease in appropriations it was necessary to dispense with the services of two of our staff. The remaining members of the staff have continued the work on the soil survey report for the Hoosac sheet; for which the resurveyed work was completed in July. The results have since been tabulated.

Chemical and mechanical analyses were made on approximately 800 samples of soil, representing the seven most important soil types of the Hoosac sheet, and covering an area of about 2, 875,000 acres. Of this about 11 per cent is eroded area, river bottom, and mixed types in general, largely unsuited to farming. About 3 per cent is rock, and 18 per cent sandy loam, or 21 per cent of the lighter classes and about 58 per cent of the more desirable soil types. It was found that only slightly more than 50 per cent of the total area was devoted to crops, and that of all the crops, wheat and oats constitute from 92 to 98 per cent of the total, with about four or five acres of wheat for each acre of oats.

The fertility involve of the sandy is only about one-half that of the better types of soil, whereas the sandy

loam is about two-thirds that of the better types.

Provision should be made for the completion of the analytical work and checking of the field work on the Medicine Hat sheet, so that a report for this area may be submitted some time during 1924. It is hoped that provision will be made for a continuation of the field work in connection with the soil survey.

During the past summer and fall, investigations have been conducted to determine the rate of decomposition of organic matter in the soils of the Edmonton district. Upwards of 300 samples of soil have been subjected to analysis. This work has disclosed some very important and interesting data as follows: The Edmonton soils have a high nitrifying power. In the early spring all plots were high in nitrates. The nitrates increased with the advance of the season in the summer fallow, and decreased under all crops. At no time were the plots under perennial crops as high in nitrates as those under annual crops Some of the plots contained sufficient nitrates to produce a 50 bushel crop of wheat without any further decomposition of organic matter. The summer fallow plot contained about the same amount of nitrates as the other plots in the early spring, but at the end of the season was from 5 to 10 times as high as the cropped plots. The summer fallow plot contained much more water than any of the

cropped plots, and was generally near the saturation point for the upper two feet of soil, whereas the timothy and alfalfa plots were often almost down to the wilting point. It is hoped to publish the results of this investigation during the coming winter. This investigation should be continued at least during one more summer and fall.

A considerable number of miscellaneous samples have been analysed for farmers and reports made on same; together with minor pieces of work for the Provincial Department of Agriculture.

Several hundred samples of alkali soils and drainage water have been analysed, and it is hoped to expand this work during the coming year.

The Department of Animal Husbandry transferred a piece of land to the Department of Soils for experimental purposes; but, it was impossible to obtain data for yields this year. The land will be laid out in plots and subjected to experiments in the spring of 1924.

Dr. J.D.Newton has been devoting a part of his time to the following investigations:Measurement of carbon dioxide evolved from roots of different crop plants, with a view to understanding the effects of these different crops upon soil compounds. Rates of carbon dioxide evolution are being related to rates of transpiration and

growth. It seems desirable to obtain more data before publishing these results.

Dr. Newton has published the major part of his Doctor's thesis in "Soil Science" Vol.XV, no.3, March 1923.

The following two circulars have been prepared by the Department, and are now ready for the press:

1. Soil Sampling.
2. Inoculation of Legumes.

DEPARTMENT OF ANIMAL HUSBANDRY

There are at present 7 pure-bred Belgians, 7 pure-bred Percherons, and 5 registered Clydesdales on the University Farm. This year we were successful in raising four foals - 2 Clydesdales, 1 Percheron and 1 Belgian. During the year we lost one of the Percheron mares from acute indigestion. In order to maintain a sufficient number of Percherons for class-room work we purchased this year a pair of fillies. These were selected from the Bar U stud: both are rising three-year-olds and give promise of developing into good brood mares. One clydesdale filly rising two-year-old was purchased from the E.P.Ranch. This mare was imported this year; she is sired by one of the outstanding stallions in Scotland, Dunure Recollection, is a good representative

of the breed and will strengthen considerably the Clydesdale stud at this institution. In addition to the pure-bred horses, 6 grade horses are maintained to help out with the farm work. One saddle horse, the Farm Superintendent's horse, and a two-year-old grade colt complete the horses maintained at this institution.

Beef Cattle:

Representatives of the three beef breeds - Shorthorns Herefords and Aberdeen-Angus - are maintained on the University Farm. A pure-bred Aberdeen-Angus bull was added to the herd this year. This bull came from Mr. Henderson's herd at Lacombe. He is an exceptionally well bred animal, two International grand champion bulls appearing in the first three generations on his sire's side. The increase from the beef herd has been rather disappointing this year due to the outbreak of abortion in the summer We have on hand at present however, a few calves of both sexes. Due to the fact that the demand for bulls has been limited, the male calves for the most part have been castrated and will be developed as steers to be used for class room work. In addition to the calves bred at the Institution, several breeders in the province have donated calves which will help complete our herd of show steers another year. In addition to the breeding herds, 75 feeder steers were put into the feed lots this fall to be fed throughout

the winter. Three steers are being used in a feeding various feeding trials mentioned elsewhere in this report.

Dairy Cattle:

A few very creditable milk records have been completed during 1923 in the dairy herd. The pure-bred Jersey heifer V.A.Milk Boon 8th produced 7830 pounds milk and 428 pounds butterfat as a two-year-old in the 305 day division. This is the third highest butterfat for this age and class in the Dominion, and leads in the three yearly provinces. In Holsteins, Pontiac Maida Keyes and Joseph Maida Veeman produced 18952 pounds milk, 834 pounds butterfat, and 18834 pounds milk and 872 pounds butterfat respectively in the two-year-old class. In the three-year-old Holsteins Joseph Pontiac Bell gave 14040 pounds milk and 579 pounds butterfat, and Maida Pontiac Lass 18070 pounds milk and 469 pounds butterfat. The Ayrshire culture cows, Jean and Mutual Belle, Lady Mutual Belle and Lady Burgess of Hillside, that completed records this year, gave an average of 17157 pounds milk and 577 pounds butterfat.

A few of the Jerseys in the herd were disposed of this year; they were mainly those that were unsatisfactory in production and inferior in breed type. No additions were made to the herd this year. Over a year ago a number of cows in the dairy barn were affected with Vaginitis. These were given treatment and later a calf being bred proved to be in calf, but afterwards a few of them aborted. The result is that the increase in calves this

year is comparatively small. The trouble with abortion is not yet altogether stamped out, and we have now taken steps to have all affected animals isolated and given treatment by means of the live bacilli. It is hoped that during the next year the entire herd will be completely cleaned up and again be on a productive basis.

Only two breeds of dairy cattle are maintained at this institution as yet - Holsteins and Jerseys - there being 30 Holsteins and 14 Jerseys.

Sheep

During the summer about 50 grade ewes were disposed of as the flock was becoming too large to handle with the pasture available. In order to carry on the experimental work with sheep that is considered essential, however, it is necessary to carry a reasonably large flock of grade sheep. Approximately 140 grade ewes are on hand at present, practically all of which are being used in winter feeding trials. In addition to the grade flock, representatives of five breeds are maintained for our teaching work in Animal Husbandry. A small flock of Oxford Downs was added to the flock during the present year. These were purchased from the Earl of Minto's ranch, and some of these ewes are part of the foundation flock that was established at this ranch a few years ago. Included in the purchase are a few imported sheep, the balance being bred

from imported stock. Altogether we have 69 pure-bred sheep including the following breeds: Hampshires, Suffolks Shropshires, Oxfords and Leicesters. There has been a keen demand for breeding stock during the present year, and quite a number of pure-bred rams and ewes from the University flock have been disposed of to breeders in various parts of the province.

Swine:

The present year has been a very satisfactory one so far as the swine department has been concerned. Last spring approximately 60 sows farrowed. A few litters born in March suffered more or less from pleuro pneumonia due to the cold weather; with the exception of a few deaths from this trouble we were quite successful with the spring farrowed litters. Between 25 and 30 sows were bred to farrow this fall in September. There was an average of very close to 8 pigs per litter, which means we are carrying a comparatively large number of hogs through the winter. Feed is cheap, there is considerable experimental work that should be carried through, we have accomodation for the number on hand, and we feel justified in increasing slightly the number of swine at this institution.

Previous to this year breeding work was carried on principally with the Tamworth and Berkshire breeds,. Early in the year a small herd of Yorkshires was established by

the purchase of four sows and a boar. With the increased demand for bacon hogs to supply the British market, it seemed advisable to give this popular breed a place in our breeding work in order to determine their suitability in the province of Alberta. In addition to the three breeds mentioned, a few Duroc Jersey and Poland China sows are being retained. This is necessary in order to provide material for class-room work. During the past year a number of pure-bred hogs of both sexes have been sold to breeders in the province to improve their herds.

Steer Exhibit:

Fifteen steers from the University were exhibited this year at the larger Eastern shows, i.e., The Royal Agricultural Winter Fair at Toronto, The International Live Stock Exposition at Chicago, and the Provincial Winter Fair at Guelph. This exhibit was made possible by the co-operation of some of the prominent breeders of pure-bred beef cattle in the province. These breeders donated the steers, as calves, on the understanding that they were to be fitted and shown by the University. In addition to the animals received in this way, a few steers bred on the University Farm were also included in this year's exhibit. The entire herd of fifteen were in competition at the Royal Show, six steers only were shown at

REPORT OF THE COUNCIL OF AGRICULTURE FOR THE YEAR 1958

Chicago, and nine at Guelph. The following list gives the details of the winnings at the three shows.

TORONTO:

Placing	Class	Breed	Name of Animal	Breeder
4th	Senior yearling	Shorthorn	Craiglevar Mascot	Wm. Sharp Lacombe
5th	Junior "	"	Snowball Perfection	Jas. Sharp Lacombe
6th	" "	"	Craiglevar Viscount	Wm. Sharp Lacombe
3rd	Junior calf	"	Graven's Snowman	J. Chas. Tu Carnwaire
5th	" "	"	Barely Supreme	University of Alberta
1st	Junior yearling	Hereford	Linda Gay Lad	University of Alberta
4th	" "	"	Beau Perfection	S.S. Blair Red Deer
2nd	Senior Calf	"	Donnadio 4	University of Alberta
4th	" "	"	Helen's Lad	University of Alberta
1st	Senior yearling	Aberdeen-Angus	Knight of Willow Park	C.H. Richer Howden
1st	Junior "	"	Eliminator's Best L.H.S.	Lacombe Experimental Farm Lacombe
4th	" "	"	Marshall of Hartburn	A.E. Hood Olds
6th	" calf	"	Alta Bertlet	A.E.A.H.S Clemens Sedgewick
7th	" "	"	Victor's Pride	University of Alberta

Champion Hereford steer and reserve grand champion steer of show - Linda Gay Lad.

Champion Aberdeen-Angus steer - Eliminator's Best L.H.S.

CHICAGO: (Only six steers from University showing)

Placing	Class	Breed	Name of Animal	Breeder
5th	Senior yearling	Shorthorn	Craigievar Mascot	Wm. Sharp Lacombe
4th	Junior calf	"	Craven's Snowman	J.Chas. Yul Carstairs
4th	Junior yearling	Aberdeen-Angus	Eliminator's Best L.S.S.	Lacombe Experimenta Farm Lacomb
8th	Senior calf	Hereford	Don Radio	University of Alberta
11th	Junior yearling	"	Linda Gay Lad	University of Alberta
5th	Group Shorthorn Steers			

QUEBEC:

1st. Steers over 1 year Shorthorn Snowball Perfection
Jas. Sharp, Lacombe.
1st. Steers under 1 year Shorthorn U.A.Golden Drop
University of Alberta.
3rd. Steers under 1 year Shorthorn U.A.Lovely Supreme
University of Alberta.
2nd. Steers over 1 year. Aberdeen-Angus Marshall of Hartburn
A.E.Boad, Olds.
3rd. Steers over 1 year. Aberdeen-Angus Knight of Willow Park
C.H.Richardson, Bowden
1st. Steers under 1 year. Aberdeen-Angus Alta Bartlet
A.E.A.E.S.Clemons, Sedgewick.
3rd. Steers over 1 year. Hereford Beau Perfection
S.D.Blair, Red Deer.
3rd. Steers under 1 year Hereford, Helen's Lad
University of Alberta.

Champion Shorthorn Steer - Snowball Perfection.

4th - Group of Three Steers under 1100 pounds.

REPORT OF THE COLLEGE OF AGRICULTURE FOR THE YEAR 1923

Extension Work:

During the present year the members of the Department of Animal Husbandry have spent considerable time in extension work throughout the province. This has taken the form of attending farmers' meetings in connection with Soldier Settler work, as well as assisting the Provincial Department of Agriculture with Farmers' Institute meetings. At the request of the Superintendent of Fairs and Institutes a number of fairs in various parts of the province were attended and assistance given in judging.

Feeders' Day:

The second Feeders' Day put on at the University of Alberta was held last April at the time the feeding trials being conducted during the winter were completed. It is recognized that in order to make experimental work worth while it is necessary that the general public should be kept in touch with the results of such tests. Experience at this institution in common with others, has shown that there is no better way of doing this than by means of what has come to be known as feeders' or farmers' day. The event this year was very satisfactory indeed. Over 200 were in attendance, including farmers, especially those interested in livestock feeding problems, commission men, packers, experimentalists, farm newspaper editors, as well as representatives of the Provincial and Dominion Governments.

Training Farms:

During the present year the members of the Department of Animal Husbandry have spent considerable time in extension work throughout the province. This has taken the form of attending farmers' meetings in connection with Dairy Herd Improvement Registry work, as well as conducting the provincial Department of Agriculture Farmers' Institute meetings. At the request of the superintendent of Dairying and Creameries a number of films in various parts of the province were attended and assistance given in judging.

Tractors' Test:

The second Tractors' Day was held on at the University of Alberta and held 1 of April at the time the Feeding trials being conducted during the winter were completed. It is recognized that in order to make experimental work worth while it is necessary that the general public should be kept in touch with the results of such tests. Experiments which involve co-operation in common with others, thus about that there is no better way of doing this than by means of what has come to be known as Tractors' or Harrows' Day. The event this year was very satisfactory indeed. Over 800 were in attendance, including farmers, especially those interested in first-hand feeding problems, demonstrations, practice, experimentalists, farm managers, editors, as well as representatives of the Provincial and Dominion Governments.

The animals used in the feeding trials during the previous months were on view, and those present had an opportunity of seeing for themselves the actual results of these experiments. Prominent livestock men in the province, and representatives from the Provincial Government and the Natural Resources Department of the Canadian Pacific Railway Co. very kindly co-operated, outlining the results of livestock experimental work carried on by their various institutions.

Publications:

Two bulletins were prepared by the Department of Animal Husbandry during the year. Bulletin No.1 "Rations for Wintering Pregnant Ewes", is a complete report covering three years' work at this institution with various feeds most commonly used for winter feeding of breeding ewes. "The Production of Fall Pigs in Alberta" Bulletin No.7, is compiled from data secured during the past few years at the University of Alberta in respect to the economy of fall litters, together with a few suggestions on the winter feeding and management of swine. These bulletins are being distributed by the Department of Extension at the University.

EXPERIMENTAL WORK:

Steer Feeding:

During the winter of 1922-23 the third test comparing

the value of sunflower and oat silages for fattening steers was completed. The results of the three trials correlate very closely, showing that, for finishing steers, oat silage was superior to sunflower silage. The report of this experiment covering the three year's work has been carefully checked and compiled and should be ready for publication early in the New Year.

Further work has been done testing the feeding value of oat hay and prairie hay for fattening steers. Two years' work would indicate that oat hay has a higher feeding value for the purpose than prairie hay. At least one more test should be conducted with these two hays before the results will be ready for publication.

Two tests to determine the value of silage for fattening steers proved that silage was worth slightly over $5.00 per ton. The work outlined in this connection this year has been somewhat broadened. An experiment is in progress this winter to compare the gain produced by feeding a definite acreage of oats made into hay with the same quantity from a similar acreage, cut at the same period, made into silage.

With the object of securing some definite data on the economy of gains made by steers of different ages, three groups of yearlings, two-year-olds and three-year-olds, were on test last winter. The results of only

one test were in favour of the two-year-old steers. This work is being continued on the same basis this year.

Two new projects in steer feeding were commenced this year: one to determine which is the more economical- a full feed of grain or a limited grain ration, the other to ascertain the value of oilmeal when fed in conjunction with the ordinary grain ration of barley and oats.

Experiments with sheep:

Work was commenced two years ago with a view of comparing the effect on the growth and development, together with the breeding capacity, of sheep when bred as lambs with those that were not bred until a year later. An experiment of this nature necessarily takes some few years to carry through. Two years' trials have brought out some rather interesting facts. No report on this work will be available for a year or two yet.

Oat hay when fed as a sole ration to pregnant ewes has resulted in a disappointing lamb crop. In order to determine the most suitable supplement to feed with oat hay, various rations are being used, as well as one mineral mixture consisting of calcium carbonate.

One trial has already been conducted to compare the value of oat silage and sunflower silage for pregnant ewes. The results so far obtained would indicate that the relative

value of these two silages is dependent upon the other feeds fed in the ration. This work is being continued this winter.

Previous trials with various feeds from winter feeding of breeding ewes would indicate that the prevalence of goitre in lambs is to some extent affected by the rations fed the sheep during the period of pregnancy. In order to secure further information in this connection trials are in progress this year upon which close observations will be made.

During the past summer an experiment was in progress with the view of comparing the relative merits of rape and oats as pasture crops for sheep from the standpoint of gains on the flock as well as the carrying capacity of the two crops. The summer was comparatively wet; growth was abundant throughout the season, which meant that pasture crops of all kinds did particularly well. Considering all features of a desirable pasture for sheep, the rape proved slightly superior to oats. The work comparing pasture crops for sheep will be continued next year and enlarged to include both sweet clover and altaswede clover.

Experiments with Swine:

In 1923 three years' work was completed with a view of determining the economy of fall pigs. It was found that fall pigs could be raised at a profit. The average of

value of these two silages is dependent upon the other feeds fed in the ration. This work is being continued this winter.

three years' work showed that it took approximately 500 pounds of grain to produce 100 pounds gain under winter conditions. A three years' average figure taken from experiments conducted at this institution showed that it required 469 pounds of grain to produce 100 pounds gain with spring farrowed pigs, self-fed on pasture during the summer months. While the difference is somewhat in favour of spring farrowed pigs, it was found that the increase in price for the fall pigs marketed in the spring practically offset any difference in economy of gains in favour of the pigs fed during the summer. The results of the winter feeding trials showed that when extra labor and cost were considered it did not pay to cook the ordinary grains for winter pig feeding. Bulletin No.7, "The Production of Fall Pigs in Alberta", issued by the Extension Department of the University of Alberta, gives a complete report of all the trials in connection with the winter feeding of pigs at this institution.

Several tests have been made comparing oats and barley as well as mixture of these two grains as feeds for brood sows during the winter. The results obtained thus far are in favour of oats.

A comparison of various supplements to be fed in conjunction with the ordinary farm grown grains - barley and oats - to sows during the suckling period has shown

that buttermilk is superior to either tankage or shorts. This is based on two years' work.

A test was conducted during the winter of 1922-23 to determine the value of skull potatoes as a feed for fall pigs. One trial showed that 411 pounds of potatoes equalled 100 pounds of grain. When barley was valued at 66 cents per bushel, oats at 52 cents and shorts at 26 dollars per ton, potatoes could be marketed at 21 cents per bushel through fall pigs.

One test conducted last winter to determine the value of tankage for feeding fall pigs indicated that the feeding of this protein supplement at the rate of 5 per cent is advantageous from the standpoint of economy of gains and time required to reach market weight. Further trials are in progress this winter to check up on the previous year's results.

An experiment was commenced early in the summer with the object of comparing rape, alfalfa, and a grain mixture made up of 1 bushel each of barley, oats and wheat, as forage crops for swine. All three crops made a remarkably good showing due to the frequent rains throughout the summer. Both the alfalfa and grain mixture made an early growth and were ready for pasturing about two weeks before the rape. In the case of the grain mixture, however, it ripened at the usual time, and for this reason did not

provide during the latter part of the season, the succulent growth, as was the case with the rape and the alfalfa. This work will be followed up next summer, with the addition of sweet clover, four plots having been seeded to this crop during the past season.

Rather an extensive experiment was outlined last spring with the purpose of ascertaining the influence of various feeds and methods of feeding on the market type of hogs. Eight groups of pigs, including 7 pigs in each lot, were fed different rations under different conditions. The effect of the various protein supplements - skim milk, tankage and alfalfa, were considered, the results of limited hand-feeding as compared with self-feeding was noted, and the use of two pasture crops was checked against dry lot feeding. The hogs were all graded on foot by an official grader before being slaughtered and all the carcasses were scored by a competent man from the standpoint of their suitability of Wiltshire sides, texture of meat, mixture of fat and lean, general balance and all those features that are considered in a good side of bacon. This particular experiment is being conducted again this winter, only in a slightly modified form. The aim is to carry this experiment for possibly two years or more under both summer and winter conditions with a view of securing definite data on the rather press-

ing problem of the improvement of the type of hogs in the province of Alberta.

Two other projects have been started this year: A determination of the value of mineral mixtures for fall pigs - this work was only commenced this fall; the other was a test with brood sows to learn the most economical amount of grain to feed pregnant sows during the summer months while running on pasture. One season's work would go to show that while running on good pasture brood sows can be satisfactorily maintained with a very small amount of grain.

Experiments with Dairy Cattle:

The first experimental work of any nature with the dairy herd at this institution was commenced this year. A comparison is being made of the relative value of oat silage and sunflower silage for milk production.

Determination of Silage Production Costs:

During the past season the Department of Animal Husbandry has made an attempt to gather some figures on the cost of producing oat and sunflower silages. In this work the co-operation of several farmers in various parts of the province was secured. The farmers have kept records of labour costs in connection with the growing and harvesting of these crops, and a check was also made on the yields in as far as it was possible to do so.

Losses in Ensiling:

Records are being kept on the crops in the various silos on the University Farm with a view of determining the losses that occur in ensiling both sunflowers and oats. The losses will be based on moisture content and the changes that occur in the chemical composition of the silages at various depths in the silo.

DEPARTMENT OF FIELD HUSBANDRY

As was announced a year ago, the work in the Department of Field Husbandry has been organised along three lines, viz., Field Crops and Field Crop Experiments, Plant Genetics and Plant Breeding, and Plant Biochemistry. This arrangement offers opportunity for specialization, and enables the work of the Department to progress systematically. The report this year is being given in accordance with this scheme of organization.

Owing to the rapid and extensive development of the Alberta Crop Improvement Association during the last four years it is proposed to deal with this also as an additional separate division of the report.

Field Crops and Field Crop Experiments:

Varieties

Five year tests indicate the following varieties of farm crops as best suited to existing conditions.

Projects:

1. Wheat: Marquis, Kitchener, Huron, Ruby, Red Fife, in the order mentioned, constitute the most suitable wheat varieties for Alberta. Of these Marquis combines in the best manner the qualities desired, viz., earliness, good baking and milling qualities, maximum yield in keeping with suitable earliness, fair strength of straw and non-shattering propensity. Red Fife may be considered under exceptionally favorable conditions that promote earliness, though risky at best.

   Ruby is an early wheat ripening in 6 to 8 days earlier than Marquis, but its quality and yield are quite inferior to Marquis. Where frosts reduce the commercial value of Marquis, however, 4 years out of 5. such varieties as Ruby and Red Bobs should be resorted to.

2. Oats. Banner, Victory, Swedish Select and Abundance are among the best varieties for Park Belt conditions. As grain, green fodder and silage production, they combine excellent merits. The question is often asked which of Banner and Victory is the better, to which it is difficult to give a satisfactory answer. Banner is slightly more productive, though less uniform in color and plumpness and does not, therefore, attract the eye so readily. The grain of Victory invariably outscores

that of Banner when in competition, and has, as a result, won many prizes and no less than four Grand Championships in International competition during the last four years. If Victory possesses any undesirable features at all it is that, on account of its plumpness, it shatters rather easily when being threshed, with the result that a small percentage of the grains are hulled.

Other varieties to be mentioned are: Swedish Select and Abundance. The early oat, as represented by Daubeney or Alaska, is not sufficiently productive to warrant mention here.

5. Barley. O.A.C. #21 is the best of the six-rowed varieties. Mark's also has a place, though it is slightly later. Canadian Thorpe, a two-rowed variety, is worthy of special mention, partly because of its favourable yielding capacity and superior strength of straw. Guy Mayle, a hulless, bearded barley, is the best of the hulless sorts. Because of the hulless character of its seed this variety is essentially a feed barley and not suitable for commercial purposes. Improved white hulless barley is splendid for fodder purposes. Combined with this is its special value for aiding in the control of such bad weeds as wild oats. It is early, and when seeded on land infested with wild oats,

it competes with them in growth, and consequently both may be cut prematurely for hay. Alberta Beardless, a new hulless, two-rowed variety, is also useful as a fodder crop. Moreover it is more productive than the Improved White Hulless, and even compares very favourably with oats.

4. Peas. Many varieties of peas have been tested during the last six years. Noe of the varieties most commonly recommended can be relied upon on account of the fact that they do not ripen satisfactorily in our short season. A variety developed in this department, the White Albertan, has proven the best in our trials because of its earliness. It yields as well as Arthur in a four year test. That the White Albertan is a variety of peas of merit, and suitable for Alberta conditions, is shown by the fact that during the last three years it has been grown at Lloydminster, Penn and Holder with equal success, as revealed by its winnings in competition at the International Grain and Hay Show at Chicago. It is a small seeded, white variety of unusual quality and weight.

5. Rye. North Dakota #959 - Dakold - has proven our surest variety. It withstands our winters very satisfactorily in contrast with all other varieties tested.

In spring rye the O.A.C. #62 is very satisfactory.

6. Potatoes. Irish Cobbler, Early Ohio and Wee MacGregor are among the best varieties of potatoes. These are medium to early and produce a fair table quality and acre yield. Other varieties worthy of mention are Bovee and Idaho Rural and Rural Russet, the latter two however, are rather late and apt to be poor in table quality; nevertheless, they do not seem quite so subject to disease, particularly scab, as some of the other mentioned varieties.

LEGUMES

7. Alfalfa. Grimm is the surest variety of alfalfa. While it is true that Cossack, Turkestan and Common, and other strains, have shown much winter hardiness, we do not feel that at the present time they should be recommended because of the difficulty of securing adequate seed from northern-grown hardy strains. With Grimm there is plenty of seed available, though we must be sure that it is of northern origin - and preferably Alberta. If one can be sure that seed from other varieties is grown from a satisfactory stand (indicating winter hardiness), the risk is correspondingly reduced. This applies particularly to Cossack, which in many respects is similar to Grimm.

8. Red Clover. Altaswede stands supreme among clovers at Edmonton. It has shown remarkable, though not perfect,

winter hardiness, during tests carried on during the last six years. It is especially valuable as a hay and seed producer. One farmer, south and west of Edmonton, has produced 60 bushels of excellent seed from 20 acres. His crop growth was so rank, due to favourable seasonal conditions, that he was tempted to cut it for hay. This clover is the result of artificial and natural selection in this Department from the Late Swedish clover.

9. Other Clovers. Alsike and White or Dutch show a high degree of winter hardiness.

10. Sweet Clover. The Biennial White and Biennial Yellow are the most suitable of our present strains or varieties of sweet clover. The former grows somewhat coarse and upright, while the latter is more bushy and finer in stem, and yet it is not to be preferred over the former. These varieties are both quite winter hardy at Edmonton.

11. Grasses. Western Rye, Timothy and Brome Grass are suitable for hay and pasture, with a second choice of Meadow Fescue and Kentucky Blue, particularly for grass mixtures.

12. Corn. Some seventy-seven varieties and strains of corn have been tested in this department during the last six years. Many of these represent the flint

types, while many represent the dent types. In all these tests the major share of the flint varieties have proven to be earlier than the dent varieties. Very few of the flints, however, succeeded in ripening seed, in fact only one, viz., the Howes Alberta Flint, proved a certainty in this respect. It should be remembered, however, that there are two quite well marked groups in flint and dent varieties. The early, or small stature, short-season group; and the later or tall growing, long-season groups. The early maturing varieties in each group, however, are characterized by light production of fodder, with a possibility of a small percentage production of mature corn. Hence, if one desires ripe grain, preference is given to grain at a sacrifice of large yield of stalk. This varies, it is true, in keeping with the length of the growing season. A variety growing in a 130 day season may appear a very different one in a 90 day season

The following varieties are recommended:

Small Flints - Howes Alberta Flint, (very early, light fodder production).

Gehl, Assiniboine Indian, (slightly later and more productive of fodder.

Free Press, (slightly later and more productive of fodder.)

Medium to
Large Flints-Quebec #28, Longfellow, Dakota White Flint, Compton's Early, Improved Squaw, King Phillip. These do not ripen corn at Edmonton, yet they yield from 8-15 tons fodder.

In the south eastern Alberta the medium to large Flints promise both a fair yield of fodder and grain.

Smaller to
Medium Dents-North Western Dent
Minnesota #13
Wisconsin #7

Of these groups the medium to large flints and dents are the only varieties capable of giving satisfaction for silage or dry forage corns. For this purpose they may reach as high yield as 12-14 tons of green fodder.

13. Sunflowers. Many varieties of sunflowers have come under test during the last four years. These, like corn, divide themselves naturally into the long season, medium season and short season varieties. The first mentioned grows very tall with low percent dry matter, while the latter, though shorter, reach a more advanced degree of maturity and thus give a somewhat higher percentage of dry matter. The total dry matter of the latter is quite as high, however, as the former, and what is quite as important it is cheaper to handle; less water washes out of the silo, and a better quality of silage is likely to result. Mammoth-Russian or

Russian Giant, or Giant Russian as it is often called depending upon source of seed, represents the former, the latter is represented by the Black Giant and White Beauty. The last mentioned unfortunately is rarely found in the trade.

14. Roots. Roots of one kind or another hold an important place in the feed ration of livestock in this province. Succulence in the winter feed not only improves the health of animals and lessens the percentage of losses, but increases the palatability and digestibility of coarse fodders, and lowers the cost of beef and milk production. Unfortunately roots require much hand labour in their production. Again occasional losses occur when the plants are in the early stages of growth, due to drifting soil, high winds, cutworms, and severe dry weather. A minor difficulty arises, especially when grain crops are grown on a large scale, in the conflict with harvesting and threshing operations. The relative position of the different classes of roots is determined chiefly by the yield, keeping quality, and dry matter content, though resistence to spring and fall frost, suitability for specific purposes, and ease of growing and harvesting, must always be considered. Swedes, Turnips, Mangels, Sugar Beets and Carrots in the order mentioned indicates the relative

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importance of the roots for these conditions.

Management:

15. The intertillage of cereal grains is a question that has been studied for three seasons in this department. Can wheat, or oats be seeded in such a manner as to be tilled like corn, and enable the wheat grower to grow cereal crops continuously by virtue of moisture conservation? In this project soil moisture determinations have been made regularly to check up on the efficiency of inter-tillage in moisture conservation.

The possibility of discovering a partial substitute for the bare fallow, through the use of the cereal grains as well as corn, is here the main concern. Our investigations show many very significant facts.

16. Pasturing fall rye intended for grain in the spring shows some pronounced results. Our experiments indicate that winter rye pastured up until the end of May reduces the yield of grain 50%. If pastured 10 days later the resulting yield of grain is reduced 90%. The effect here is quite evidently dependent upon the seasonal conditions. If June were characterized by liberal rainfall, the yields might be very different, but with a dry June the growth is apt to be sparse and slow. Seasonal conditions also serve as a determining factor in the amount of pasturing to which rye may be subjected.

If very wet in May much harm is rendered the growing plants, especially by heavy stock, if very dry the carrying capacity is reduced in keeping with growth conditions.

17. To ascertain the most suitable time to plow sod land:- Three main studies are here involved:

(a) To destroy the sod and prevent growth of grass in the succeeding crop. This applies to sods like Brome, Western Rye, Timothy and Mixed Hay.

(b) Surface cultivation necessary to decompose the sod and provide a suitable seed bed.

(c) Conservation of moisture for the succeeding crop, after such kind of grass crop or sod.

The results secured show quite emphatically that late July or early August plowings, or as soon after removing the hay crop as possible, achieve the desired ends sought in (a), (b) and (c). Even the Brome grass sod is subdued in a most satisfactory fashion - as nearly 100% of the plants are destroyed. The surface cultivation recommended is just sufficient to keep the grass from growing. The suggestion is here implied also that in summerfallowing land badly infested with couch or quack grass, plowing should be deferred until well into July - in the meantime the grass should be closely pastured. This applies to Central and Northern Alberta.

18. Testing sunflowers, oats and corn as to their relative economic value as field crops for ensilage.

Some significant points are here to be considered:

(1) Oats with 40% dry matter content supply from 3½ to 5½ tons dry matter per acre, whereas sunflowers with a 15% dry matter content, and an infinitely greater gross return than oats, yield only from 3 to 5 tons of dry matter per acre.

(2) Corn, on the other hand, with a 15% dry matter content, depending on varieties and stage of maturity, yields from 3 to 5 tons dry matter per acre.

(3) The cost side in production is also vitally concerned:

(a) Seed Cost
(b) Seeding, growing and handling
(c) The necessity of building a silo in the case of sunflowers might be obviated in the case of oats or corn as a green or partially dried feed, or,
(d) If ensiled the possible loss from high percentage water laden with food products, as in the case of sunflowers, through the bottom of the silo, or if retained its bad effect upon the quality of the silage.

19. Seeding clover, timothy, sweet clover with a nurse crop of wheat, oats or barley. This project indicates that crops like red clover and timothy fall into a different category from sweet clover, owing partly to the longer duratiohn of the former. A short-lived plant like sweet clover seems capable of giving much better satisfaction if grown alone and cropped both during the season of planting and in the season following. It is particularly suited to

pasturing both seasons. A nurse crop so retards its growth during the season of planting, by shading and moisture shortage, that only with difficulty does sweet clover retain sufficient vitality to carry it through to the succeeding season, when - due to the lack of moisture growth is only fair to medium. This to an extent applies to both the other mentioned crops, but their life of usefulness is longer and their chances of rendering better satisfaction are thereby considerably increased. Nurse crop recommendations are included in Bulletin #3, "Growing Sweet Clover".

20. Alfalfa production for hay and seed has been under careful study for some six years. In brief our experiments quite conclusively point to the value of this crop as a hay crop. Winter killing has been negligible and by careful husbanding of moisture a very satisfactory yield of hay can be secured annually. A circular is in course of preparation in which results of all experiments will be published.

21. Growing winter rye on stubble land at varying dates, and rates of planting, with different methods of land preparation.

22. To determine the best method of seeding timothy and Western rye grass for seed production. In as much as these two grasses hold great future possibilities, not

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alone as suitable hay, but more particularly as a very dependable source of revenue, due to the superior qualities of Alberta grown seed, and in as much as certain handicaps, chiefly along production lines, have rendered seed production of these crops precarious these tests are timely and very essential.

23. To determine the most suitable annual forage crops for spring, summer and autumn pasture for dairy cattle, calves, hogs. This project is constantly yielding very valuable information suitable for the dairy and livestock farmer. It points to the high relative importance of winter rye and oats as summer pasture for dairy cattle, with rye, oats, peas and rape as of inestimable value as pasturage for hogs and sheep.

24. Comparing yellow and white sweet clover, both in close seeding and in rows 24" apart, with respect to their hay and seed producing qualities.

25. The effect of time and frequency in cutting white sweet clover. This project will throw light on the practice of pasturing white sweet clover.

26. Altaswede red clover stands have suffered to some extent during the last two winters, partly due to exposure - these winters have been characterized by low snowfall in the early part of the winter season. An experiment in mulching with straw and manure has been

alone as suitable hay. But more particularly is a very dependable source of revenue, due to the proper- ior qualities of Alsyke grown seed, and is as much as certain benefactors, chiefly along production lines, have rendered good production of these crops practicable these tours are timely and very essential.

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24. Comparing yellow and white sweet clovers. Both in clean seeding and in rows 24" apart, it appears to their hay and seed producing qualities.

23. The effect of time and frequency in cutting white sweet clover. This project will throw light on the practice of pasturing white sweet clover.

22. Alternate red clover stands lasts one cutting to come extent during the last two winters, partly due to exposure - these winters have been characterized by low snowfall in the early part of the winter seasons. An experiment in mulching with straw and manure has been

undertaken to ascertain if covering is essential as a means of preserving suitable stands.

27. Suitability of white sweet clover as a pasture crop, during season of planting as well as in the succeeding season. An acre and a half of sweet clover was seeded in June and a number of sheep were turned in upon it in August and allowed to derive their entire feed supply from it. During the first season's experiment (1923) it was found that sweet clover proved highly suitable as a pasture crop for shearling sheep. While its carrying capacity was high, the clover proved quite palatable and capable of maintaining the sheep in a very satisfactory manner.

28. Suitability of Howes Alberta Flint corn for "hogging-off". This corn is a product of selection and adaptation to climatic conditions. It is small in stature, exceedingly early, and capable of supplying a nice yield of well matured corn. In 1923 the yield on an acre basis was 40 bushels of shelled corn. To determine its usefulness for "hogging-off", a practice very much in vogue in the northern Great Plains, a small acreage was planted and when matured some 10 spring hogs were turned in upon it and allowed to pasture and feed upon it at will. The results secured are very promising. They indicate very satisfactory

returns in pork production. In arriving at the suitability of this crop for this purpose, due regard is had to the usefulness of barley in this respect. Barley is not only well suited to climate and soil, but as well it produces a bacon of high quality.

29. Rotations. We do not know the order which the common farm crops should take in our cropping system. Forty-five rotations were laid down in the spring of 1919. These tests cannot give returns of value for several years, though the results to date indicate certain fundamental principles of value in laying down suitable crop rotations.

Plant Genetics and Plant Breeding.

1. Plant Breeding

Centgeners.

Spring Wheat - 102 selections and introductions.
Oats - 130 " " "
Barley - 129 " " "
Peas - 89 " " "

Purifications Beds

Spring wheat - 179 strains
Oats - 33 "
Barley - 47 "

Rod Rows

Spring wheat - 160 strains
Barley - 47 "

- Corn:
(a) 135 crosses and selfs among 94 varities and strains.
(b) 94 varieties and strains compared as to suitability and yield of fodder and ear corn.
(c) Study of albinism in Moses Alberta Flint

Sunflowers: Three strains - mass head selections from head rows for each strain.

Winter wheat:
(a) 1 strain - mass selection - winter killed entirely
(b) 15 head rows for selection - winter killed entirely

Potatoes.
(a) 78 Tuber unit selections
(b) 74 selections in performance test.

Timothy - Multiplication 5 Svalof strains.

Western Rye - Multiplication 7 strains.

Forage Crop Introductions.

16 miscellaneous grasses and clovers

Increase:

Marquis 111 - three plots. Bulk, corneus and starchy seed.

Ruby:
(a) Ottawa 625 strain
(b) University strain.

O.A.C. 21a Barley - 4 plots.

11. Maturity for Seed Studies

Wheat, barley and flax.

111. Grass Survey:

Studied grass associations in about a dozen typical locations in the forest and forest-prairie transition zones.

Made collection of grasses and associated species.

iv. Seed Collection;

Made collection local common weeds.

Some Results of Plant Breeding to Date.

Wheat:

Several very promising varieties of wheats are already beyond the experimental stage and will be ready for distribution to all parts of the province. One wheat of exceptional productiveness and satisfactory milling and baking quality will be tested out among members of the Alberta Crop Improvement Association this season. This wheat, because of its longer, stronger straw, combined with greater productiveness than Marquis, will fill an urgent need in the dry plains. Another wheat of quite as good promise, though not quite so productive as the above mentioned, is earlier and promises well for those areas where precipitation is somewhat more liberal, with greater likelihood of August frost. This wheat is more productive than Ruby and compares very favourably with Marquis.

Oats.

Two superior strains, one each of Banner and Victory, have been isolated, and were distributed for trial four years ago. These are pure-line strains and surpass their original parents chiefly in earliness and strength of straw. Moreover they are the equal, if not

superior, in productiveness and quality. Since first distributed in 1920 they have become the leading varieties of oats in this province, and are being more and more sought after by oat growers in other provinces of the Dominion and states in the Union. If the popularity of these oats continues they will supplant all "scrub" and other varieties entirely in two or more years time. They have been identified as Alberta Banner and Alberta Victory respectively.

Peas.

Peas are not grown extensively in this province. The reasons are, in part, due to lack of suitable varieties. A selection of the Golden Vine variety promises to furnish a real need and impetus to pea growing. This strain of field peas has made such an excellent showing in competition during the last four years - having captured two First and several other important places - that farmers are asking more and more for sources of supply. This strain has been named "White Albertan".

Clovers.

The Altaswede referred to earlier in this report is a selection from the Late Swedish Clover. It is now being grown by many farmers in this and other western provinces to some extent. It has given high yields of hay and seed under irrigation conditions, as well as in Central

superior, in productiveness and quality. Since first distributed in 1920 they have become the leading varieties of Ontario in this province, and are being more and more sought after by seed growers in other localities of the Dominion and states in the Union. If this popularity of these oats continues they will supplant all "second" and other varieties entirely in two or more years time. They have been identified as Alberta Banner and Alberta Victory respectively.

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and Northern Alberta. It promises well, but much is still to be mastered by the growers before they will understand fully its likes and dislikes as a plant.

Corn.

Howes Alberta Flint corn has been reported on before.

Timothy.

A strain of Timothy still under test shows much promise for hay and seed production. This is a selected strain of Svalof #523.

Western Rye.

A strain produced by the Dominion Agrostologist shows some advantages over commercial Western Rye. This and the new Timothy strain are being multiplied for distribution at an early date.

PLANT BIOCHEMISTRY

Silage Investigations.

Suitability of various crops and mixtures for silage. The 10 experimental silos filled in the summer of 1922, were opened and the contents subjected to palatability tests and analyses. For the reason noted below the silos were not refilled with new material.

Relation of moisture content to the quality of sunflower silage. The analyses of sunflowers ensiled in the fresh state, and after wilting for 3, 6 and 9 days, were completed. The juice flowing from the Animal

REPORT OF THE COMMITTEE ON AGRICULTURE FOR THE YEAR 1920

Husbandry Department silo, after filling with freshly cut sunflowers, was sampled and analysed.

Silage value of corn and sunflowers cut at different stages of maturity. About 60 samples were analysed for nitrogen, crude fat, crude fibre, ash, and nitrogen-free extract. Additional samples are on hand awaiting analysis.

Owing to the fact that a considerable number of investigators in other places are now working on silage, at present it is not considered advisable to prosecute this work further (after completion of what is under way), unless problems peculiar to Alberta arise. Other problems, which appear more important are pressing.

Relative Loss of Vitality in Storage of Hulled and Hulless Timothy Seed.

The 4th seeding of 1919-grown seed, 50% hulless, was made this year, hulled and hulless seed being sown separately for comparison with the original mixture. The final seeding will be made next year, and after the harvest of 1925 the project will be completed and reported. The results are providing very valuable data with regard to the rate at which the yield of a timothy stand diminishes from year to year, in addition to the data for which the experiment was specifically planned.

Growth of Corn and Sunflowers in Relation to Climatic Conditions.

The mathematical analysis of the data collected during the summers of 1920 and 1921 was completed by a

graduate student, and an abstract of the results is now in press in the Botanical Gazette. A complete report is available for publication as a research bulletin.

Winter Hardiness in Wheat and Other Crops

A paper entitled "Colloidal Properties of Winter Wheat Plants in Relation to Frost Resistance" was prepared for publication in the Journal of Agricultural Science. A more complete manuscript entitled "The Nature and Practical Measurement of Frost Resistance in Winter Wheat" is available for publication as a research bulletin.

With the aid of a grant of $2,000 for the Research Council, work is being continued on the nature of the colloids which accumulate during the hardening process, and on the critical concentration of sugar required to protect the proteins against frost-precipitation, in comparison with the concentrations occurring in the sap of hardy and non-hardy varieties during the winter.

Late fall seeding of winter wheat brought out the fact that this crop can over-winter in its very early developmental stages, or even without germination at all, and still come on early enough in the spring to receive the necessary frost or light stimulus to jointing. Plots of Kharkov 2213 seeded Oct. 17 and Oct. 30, 1922, survived about 40 and 50% respectively, and gave yields of 49 and 47 bushels per acre. Earlier fall sown plots winter-

killed almost completely, and plots sown early as possible the next spring (Apr. 13.) failed to joint or head.

Small plots of white sweet clover and Altaswede red clover were planted for careful observation with reference to the possibility that the apparent winter-killing of the last two winters may be due to disease injury.

Co-operative Work with Field Experimentalist.

(a) Dry matter of pasture and forage crops.

219 plots sampled, and the samples air-dried and ground. Of these 153 samples have been oven-dried, and the remainder will probably be completed by the end of the year.

(b) Soil moisture.

249 soil samples taken and oven-dried.

Biochemical Methods of Estimating the Vitality of Seeds.

Arrangements have been made with the Dominion Seed Laboratory at Calgary to obtain a large number of samples of which the germinative capacity and, to some extent, the germinative vigour are known. A graduate student is now being trained in the technique necessary to determine the catalase activity of these samples.

Drought Hardiness Studies.

This project has been assigned to a prospective graduate student, who is now spending some time in the preparation of seed required and other preliminaries.

killed almost completely, and plant cover nearly as complete the next spring (Lyr. 12.) Rolled to joint or knap.

Small plots effective weevil cloyer and Alsynike red cloyer seem promising for observational observation with reference to the possibility that the observed winter-killing of the last two winters may be due to disease injury.

Comparative work with Fixit Superphosphate.

(a) Hay rather of pasture and forage crops.

Six plots sampled, and the samples air-dried and ground. Of these four samples have been oven-dried, and the remainder will probably be completed by the end of the year.

(b) Soil moisture.

Soil well sampled when and oven-dried.

Microchemical tests of determining the viability of seeds.

Experiments have been made with the Molisch test for determining the viability of seeds, but the more extensive experience of others must be known. A procedure intended to be more reliable is being tried in the Seed Laboratory at Ottawa.

Seeds Received for Testing.

This material has been assigned to a cooperative graduate student, who is now working upon it in the preparation of seed required and other preliminaries.

ALBERTA CROP IMPROVEMENT ASSOCIATION

Mention has been made of the many researches and investigations at present under way in the Department of Field Husbandry. These are chiefly, if not wholly, conducted in field or laboratory at the University. Another phase of our departmental activities is that associated with the Alberta Crop Improvement Association. The activities of this Association serve as the arm of the department, which reaches out to the uttermost parts of the province and gives contact with the man on the land. The Alberta Crop Improvement Association is an outgrowth chiefly of the plant breeding and crop improvement program carried out in the department since the summer of 1918. The need for more and better suited wheats, barleys, peas, grasses, clovers corn and sunflowers, was one of the impressive and insistent facts borne out by a close preliminary study of climate, topography and natural vegetation, conducted in the summer of 1917. It revealed, moreover, the great latent possibilities of seed growing in this province. In-as-much as no systematic breeding or crop improvement work was under way at any of the experiment stations in the province at that time, the need for the vigorous prosecution of a comprehensive plant breeding program seemed all the more urgent.

By 1919 and 1920 our plant breeding gave promise of yielding some improved strains of cereal grains, due to

selection, and in the near future it was apparent that several new strains, or hybrids, would be available. The question arose, as to how best these products could be gotten out to the constituency, and thus ascertain their worth for the varied conditions we were trying to serve.

Another condition arose which claimed our attention and most earnest consideration. We refer to the call for assistance which was coming from growers of registered seed. At this time, there were only a few members of the Canadian Seed Growers' Association scattered over the province of Alberta.

On account of varying circumstances there were many problems incident to the activities of the Association in Alberta. Some of these may be mentioned: Crop and Seed inspection; production of Elite stock seed in sufficient quantities: the limitations, indeed the impracticability of a Western farmer maintaining a hand-selected seed plot (as was required of all members at that time) because of the extensiveness of his operations in the production of grain: the difficulty of securing suitable varieties for all conditions of climate, soil altitude: and the most obvious need for producing a large supply of registered seed so that all farmers might derive the greatest benefit from the selection and breeding work being conducted at the University.

In view of the needs and difficulties cited, and in an endeavour to bring as much assistance to the crop producers as possible, the Department of Field Husbandry, after carefully reviewing the best known seed growing organisations in Europe and America took the initiative in 1919-20, in forming a provincial organization, known as the Alberta Crop Improvement Association. This Association has been operating very successfully and growing rapidly from the date of its inception up to the present time. It is essentially an association of farmers interested in better crops and registered seed. Although it offers assistance to all farmers in the province, its membership does not include all farmers, since the association was designed to function in two ways, viz., first co-operatively with the Department of Field Husbandry in making local tests and multiplying new strains produced by selection and breeding, and secondly by the multiplication and ultimate distribution of high grade seed of approved varieties and strains in commercial quantities. The latter of these harmonizes well with the aims of the regular Canadian Seed Grower.

The Alberta Crop Improvement Association imposes no fees for membership. It is informal and non-commercial, and only tests of crops for their suitability are undertaken. Experimental tests in cultural methods have not

been encouraged owing to the fact that sufficient supervision to make these of value could not be provided. It will be seen that the activities of this association constitute the field work of the Department of Field Husbandry.

Following are the outstanding conditions under which membership is given:

1. All seed is sold at a cash price, whether for small tests or for the production of registered seed in large quantities.
2. Sufficient Elite seed under Section 11 is supplied to enable the grower to get into the production of commercial quantities of seed in a minimum of time. This ensures high purity and quality of the ultimate product.
3. Membership is retained by giving formal reports of crop tests carried out under Section1, and paying cash for all seed.

During the first four years (1919-1923) of the Associations operations most gratifying results have been secured. They serve to point to the great need for such work as well as the future possibilities. Some three thousand crop tests have been conducted by farmers in the province, in crops and seeds sent out from the University. As old varieties are purified, or new strains are isolated, or hybrids developed, they are offered to these co-operators

under Section 1 of the association. These tests extend from Vermilion in the North, to Sweet Grass in the South, and indicate the suitability of such products for the great multiplicity of conditions under which they are grown. The chief crops and varieties to be tested to date are: Sweet Clover, Arctic Sweet Clover, Common Biennial Sweet Clover; Alfalfa, Grimm; Red Clover, Altaswede Clover, Grasses Western Wheat Grass; Wheat: Marquis, Ruby, Kitt; Oats: Banner, Victory, Golden Rain; Barley: O.A.C. 21, Alberta Beardless, Smooth Bearded; Peas: White Albertan, Alberly Blue; Corn: Howes Alberta Flint.

The value of such tests cannot be overestimated. They indicate the suitability of a given crop for local conditions which information is valuable to the farmer and experiment station alike. Without such information the plant breeder or instructor in crops works as it were blindly. Should it be a new crop, or new variety of crop to the district, every one is interested in seeing how it will succeed, and accordingly the whole district benefits. It inculcates a desire, moreover, in the farmer for a wider range of crops, particularly if such as sweet clover, alfalfa, or red or alsike clover tests prove promising for the district in which he is interested. Many farmers have, by their own statements, been led to make cultural tests on quite a large scale. The general information which is conveyed to this

department, by the members' formal reports, is of the greatest value in teaching work and constitutes a very valuable source of material in answering questions in crop production.

Farmers in many instances use seed resulting from their tests for future production of this or that particular variety of crop, which by test has shown a suitability. Altaswede Red Clover, Western Wheat Grass, White Alberton Peas, Sweet Clover, and some of the common cereals have in many instances been established in this way.

Under Section 2 the Association's activities have been even more extensive. Starting modestly in the winter of 1919-20, with some six seed-growing centres in the eastern and central parts of the province, with some 20 farmers growing seed, the membership has increased to between three and four hundred, all of whom are growing registered seed. Some forty-five seed centres, located in all sections of the province, are now arranged for.

Elite stock seed was in such demand during the winter of 1922-23 that it was found impossible to serve all. However, with so much first and second generation seed available, from growers procuring seed in former years, no one need go without excellent stock seed.

The chief varieties to be distributed for registered seed production were Marquis, Banner and Victory. Other

crops to be sent out, though not eligible for registration, were Altaswede Clover, Hoxes Alberta Flint, White Albertan Peas, together with some newer strains of cereals not yet named.

It is not possible to accurately estimate the amount of registered, registrable, and good commercial seed not eligible for registration, though tracing back to Elite stock, that has resulted from the Elite seed thus far distributed. Close calculation was kept on these amounts until the figures reached a half million bushels. It is probable that the total will have reached several millions by this date. It is a common occurrence to receive letters from farmers whose whole farm is seeded to "thoroughbred" seed. It is fair to state that sections of the province are using nothing but seed which traces back to Elite seed In Numberless instances registration is not being sought, the desire being merely to have pure, uniform seed and crops from properly selected seed of standard and other approved varieties.

Some very interesting developments have grown out of the work of the members interested in registered seed production. In-as-much as the Alberta Crop Improvement Association did not lay plans at the outset to market Elite seed produced by its members, it nevertheless recognized that this phase of production would soon require definite

attention, and perhaps further organization of some kind. Hence, in order that the superior quality of this registered seed might be effectively brought to the attention of the public, including the American and Canadian Seedhouses, encouragement and assistance were given by the Department of Field Husbandry in 1920 and 1921, in which assistance has since been given by the Provincial Department of Agriculture, in assembling and placing entries from their seed crops in the International Grain and Hay Show at Chicago. All those who desired were carefully advised as to the suitability of their seed for showing at Chicago, and the proper method of preparation for competition.

Very conspicuous success has attended the efforts of many members who competed at Chicago. These successes have attracted the attention, not only of Alberta farmers in general toward the members of the Alberta Crop Improvement Association, but also of leading agricultural men in every province and state of North America to recognize the excellence of the registered seed which is being produced in this province. Such successes have also emphasized generally the fact of Alberta's capabilities of producing seed of the very highest quality. This effort and success by the growers at Chicago has paved the way for the marketing program which, during the last fourteen to sixteen

months, has been evolved by the Provincial Department of Agriculture in conjunction with the growers.

Another undertaking, with the same purpose in view is the placing of an educational exhibit in the 1923 International Grain and Hay Show. This exhibit combines to illustrate the methods followed in Alberta in producing and marketing registered seeds. The aim being, more particularly, to show how that by the combined effort the Federal Government; the Provincial Government, and the University, registered seeds are produced and marketed according to definite rules and regulations in the best interests of the producer, seed production, and agriculture as a whole.

PUBLICATIONS PRINTED FOR DISTRIBUTION

1. Roughages for Wintering Pregnant Ewes.
2. Growing Sweet Clover
3. Growing Registered Seed in Alberta.
4. Altaswede Red Clover
6. Plows and Plowing
7. Production of Fall Pigs in Alberta.

Cir. #1. Potato Seed Treatment.

Material for about ten bulletins is ready for publication, or will be ready for publication, during the coming year.

A P P E N D I X II

THE REPORT OF THE DEPARTMENT OF EXTENSION

BULLETIN OF THE UNIVERSITY OF ALBERTA

UNIVERSITY OF ALBERTA

DEPARTMENT OF EXTENSION

Annual Report for Year Ending June 30th, 1923

Published by

The Department of Extension, at the University

Edmonton, September, 1923

COMMITTEE ON UNIVERSITY EXTENSION

Annual Report of The Department of Extension for Year Ending June 30th, 1923

September 1st, 1923.

Dr. H. M. Tory,
President,
University of Alberta.

Sir,—

I have the honour to present herewith report on the work of the Department of Extension for the academic year ending June 30th, 1923. It will be noted that in every Department there has been a substantial increase over that of the previous twelve months.

Historical Sketch.

From its very beginning the University of Alberta has undertaken extension work in the form of lectures by members of its staff in a number of important provincial centres, but special emphasis was laid upon this side of the University's activities by the appointment in May, 1912, of a special secretary of the Department of Extension. This officer undertook the task of systematizing the extension work in such a way as to enable the University to achieve more fully the important function of reaching in its educational work the people of the province at large.

The Department of Extension also inaugurated in 1913 a press bulletin, a system of travelling libraries, and a bureau of information from which literary clubs and debating societies can obtain briefs on issues of all sorts. It organized in the same year a high school debating league which has stimulated very remarkably the interests of the secondary schools of the Province in argumentation and public speaking. A new departure in 1915 was the presentation to Edmonton and Calgary audiences of a series of discussions on the social problems of western Canadian life.

The year 1916 saw the organization of leadership conferences, since that time annual events, and in 1917 a visual instruction service was added. A large library of lantern slides and moving picture films has been developed. The last development has been the inauguration of tutorial classes in economics to which other subjects will be added as the need and opportunity require.

Extension Lectures.

During the year, 338 extension lectures have been given with an approximate aggregate attendance of 45,652, and an average attendance of slightly over 134, this in comparison with 274 lectures with an approximate aggregate attendance of 25,005, and an average attendance of slightly over 100 for the same period last year.

There have been two features of special note in connection with the extension lectures this year, one is the increasing demand which has come from such organizations as Boards of Trade, Rotary, and Kiwanis Clubs for lectures on special subjects. A series of five lectures was given at the regular weekly luncheons of the Calgary Board of Trade. Such subjects were discussed as "Alberta's Underground Wealth" by the Professor of Mining; "St. Lawrence Waterway Project" by the Professor of Economics; "Making Education More Effective" by the Director of the Department of Extension, and other topics of a similar type. Keen interest was displayed in these lectures, and a splendid average attendance was recorded. On the evening of each date the lecture was repeated to the members of the Calgary High School Teachers' Alliance.

The other feature of marked interest was an experiment with a series of lectures on Canadian History and Economics with a group of employed women, in connection with the Edmonton Y.W.C.A. Twenty-three lectures were given. Such topics as "The Story of the Canadian Provinces," "The Romance of Commerce," and "The Growth of Industry" were discussed. The attendance averaged from 74 to 125, and the interest was very well maintained. It would appear that there is a promising field for adult education among this section of the people.

A short special series of lectures was also arranged for the Municipal Chapter of the I.O.D.E. in Edmonton on such topics as "The Art of Public Speaking," "The Growth of Parliamentary Institutions," "Procedure in Public Meetings," and "Principles and Practice of Debating." The attendance at these lectures was large, and the interest very keen.

In all, twenty members of the staff or special lecturers took part in the lecture work of the Department of Extension during the term, and a very wide range of subjects was discussed.

Tutorial Classes.

This outgrowth of the Extension lecture work has resulted in some interesting developments. The work has been carried on generally at two points—Edmonton and Calgary. During the term seventeen meetings were held at Calgary, and thirty-five at Edmonton. Courses of lectures were given on "Government of Modern Democracies" and "Some Aspects of Canadian Public Finance." The work has been intended for serious-minded students, and while the attendance has not been large, varying between eight and twenty in each group, the results attained—as we have reason to believe from other sources of information—are much greater than the attendance would indicate.

Correspondence Course in Political Economy.

An outgrowth of Extension work in Political Economy has been the development of a correspondence course. From enquiries received, it was

Extension Lectures.

During the year, 398 extension lectures have been given, with an approximate aggregate attendance of 45,652, and an average attendance of slightly over 114; this in comparison with 274 lectures with an approximate aggregate attendance of 29,008, and an average attendance of slightly over 100 for the same period last year.

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The Second Decade.

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The Department of Extension was inaugurated in 1912 a press bulletin, a system of travelling libraries, and a bureau of information from which literary clubs and debating societies can obtain briefs on matters of all sorts. It organized in the same year a high school debating league which has stimulated very remarkably the interests of the secondary schools of the Province in argumentation and public speaking. A new departure in 1913 was the presentation in Edmonton and Calgary audiences of a series of discussions on the social problems of western Canadian life.

The year 1916 saw the organization of farmers' conferences, since that time annual events, and in 1917 a visual instruction service was added. A large library of lantern slides and moving picture films has been developed. The last development has been the inauguration of tutorial classes in economics to which other subjects will be added as the need and opportunity require.

evident there were scattered individuals all over the Province desirous of doing serious directed reading on this subject. At the New Year a course of instruction by correspondence based upon Professor Carver's book in Economics was offered. One hundred and twenty-five registrations were received. Of this number sixty-five sent in papers covering all or part of the twenty studies included in the course. Several have completed the course and are being given certificates of recognition, which, however, do not entitle them to any credits in regular University work. Up to the present 385 papers have been sent in by these students. As will be realized, that would indicate a wide variety of training and ability on the part of the students concerned who range all the way from graduates of Universities and Inspectors of Schools to almost illiterate foreigners.

Debating and Public Discussion.

During the year, 843 package libraries for debaters were sent out as compared with 811 for last year. The six most popular subjects and the number of times material on them was asked for were as follows:

Chinese and Japanese Exclusion	73 times
Capital Punishment	64 times
Prohibition	48 times
Control of Natural Resources	44 times
Rural vs. City Life	51 times
Proportional Representation	44 times

Provincial High School Debating League.

Twenty-two High Schools entered the Provincial High School Debating League for the term—fifteen in the "B" Division for the junior high schools, and seven in the "A" Division for the city schools. The subjects debated were "Chinese and Japanese Exclusion," and "Proportional Representation." After a keen contest the championships in the respective divisions were won by the Strathcona High School, Edmonton, and the Magrath High School. Once more it is a pleasure to record that the general comment was that never had debates, showing more conscientious preparation and outstanding ability on the part of the debaters, been held than were put on through the efforts of high school students this year.

Travelling Libraries.

During the year, exchanges of regular travelling libraries were made 380 times in 296 communities. During this time the circulation averaged 67.3 for each exchange on which reports were received. Forty-five (45) special libraries were also sent out, and the average recorded circulation from these was 54.3. The total number of libraries in circulation during the period of the report has been 232—187 regular and 45 special libraries. The communities served were as follows:—

Community Groups	130
School Districts	40
U. F. A.'s	51
U. F. W. A.'s	24
Women's Institutes	10
Other Organizations	41
Total	296

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For the twelve months, 6,543 volumes were circulated from the Open Shelf library, an average of 545.2 per month. This is an increase of 1,710 volumes over the circulation for the previous year. In addition to these, there was a circulation of 641 books of fiction among the teachers attending the summer school in July 1922, and among members of the University staff.

Besides books, plays for amateur production were supplied to 195 communities, in some cases more than once during the winter months, and 797 pamphlets (other than debating material) were also circulated.

A noteworthy feature of the Travelling Library work is the steadily increasing demand for books of a more serious character, from the Open Shelf. We have been seriously handicapped by the lack of funds for the purchase of new books required, but in spite of this, the circulation has increased enormously.

Visual Instruction.

There has been a very large expansion in the work of this Department during the current term. In the period covered by the report, 1,631 lantern slide sets have been shown 2,800 times to audiences aggregating 155,700, in comparison with 1,242 sets sent out last year, and shown 2,044 times to audiences aggregating 113,650. Lanterns were loaned for lectures on 122 occasions.

There have been 281 sets of picture films circulated and shown 518 times to audiences aggregating 49,745, in comparison with 295 sets shown 496 times to audiences aggregating 29,503 a year ago. It will thus be seen that there has been a very large increase in the circulation both of lantern slides and films.

The departure has been made this year of securing some of the high class film productions for special circulation in churches and schools. For example, the super-production entitled "The Manger to the Cross" was purchased and put in circulation among the churches in such cities as Edmonton, Calgary and Saskatoon, with the result that large audiences have seen the pictures, which are of a very high character, and the resultant film rental has almost paid for the film, which is still enjoying a large circulation. Special sets of lantern slides have also been prepared on topics of interest such as "The Birds of Alberta," and current topics such as "Injurious Insects." The work of making lantern slides for the various departments within the University, as well as for the Normal Schools, Government Departments, and other outside educational agencies, has greatly increased. The reputation of the slides from this Department is very high, and an increasing field of valuable public service is rapidly being developed in this connection.

evident there were scattered individuals all over the Province desirous of doing serious directed reading on this subject. At the New Year a course of instruction by correspondence based upon Professor Carver's book in Economics was offered. One hundred and twenty-five registrations were received. Of this number sixty-five sent in papers covering all or part of the twenty studies included in the course. Several have completed the course and are being given certificates of recognition, which, however, do not entitle them to any credits in regular University work. Up to the present 385 papers have been sent in by these students. As will be realized, that would indicate a wide variety of training and ability on the part of the students concerned who range all the way from graduates of Universities and Inspectors of Schools to almost illiterate foreigners.

Debating and Public Discussion

During the year, 843 package libraries for debaters were sent out as compared with 811 for last year. The six most popular subjects and the number of times each was sent out were as follows:

Chinese and Japanese Exclusion	70 times
Capital Punishment	54 times
Prohibition	48 times
Control of Natural Resources	44 times
Rural vs. City Life	43 times
Proportional Representation	44 times

Provincial High School Debating League.

Twenty-two High Schools entered the Provincial High School Debating League for the year 1919-20, twelve in the junior high schools, and seven in the senior high schools. The subjects debated were "Chinese and Japanese Exclusion," and "Proportional Representation." After a keen contest championships in the respective divisions were won by the Strathcona High School, Edmonton, and the Magrath High School. Once more it is a pleasure to record that the general comment was that never had debates shown more conscientious preparation and outstanding ability on the part of the debaters, been held than were put on through the efforts of High school students this year.

Travelling Libraries.

During the year, exchanges of regular travelling libraries were made 330 times in 296 communities. During this time the circulation averaged 67.8 for each exchange on which reports were received. Forty-five (45) special libraries were also sent out, and the average recorded circulation from these was 54.3. The total number of libraries in circulation during the period of the report has been 232—187 regular and 45 special libraries. The communities served were as follows:—

Publications.

Sixteen issues of the Press Bulletin have been printed during the term. A departure has been made in changing the make-up so that the publication now presents a more attractive appearance. Additional space available also makes it impossible to include articles of greater length, by members of the staff. Some issues such as "The St. Lawrence Waterway Project" and "The League of Nations" have been frequently called for outside of the Province.

In addition, bulletins have been published for the assistance of debaters, and the Annual Report of the Department of Extension for the academic year ending June 30th, 1922.

Seven bulletins on agricultural topics have also been issued through the Department of Extension, with the Director acting as Secretary of the Committee on their publication.

A number of other bulletins on similar topics are now in course of preparation.

Short Courses for Soldiers' Wives.

During the year covered by the report, ten short courses for Soldier Settlers' wives were arranged in co-operation with the Soldier Settlement Board. The Department of Extension was responsible for securing the lecturers for all the programmes, and other useful educational work for these valuable settlers was done. In all about 1,000 women received instruction at these various courses which lasted from two to four days each, and in addition large numbers of the general public attended some of the lectures. The subjects dealt with were principally Agriculture and Home Economics.

Other Short Courses.

The University Week for Farm Young People was held last June with an attendance of 73, slightly under that of the preceding year. The drop in attendance is probably accounted for by the financial stringency. Interest was well maintained, and there is an enthusiastic demand for the course to be repeated next year.

Conferences.

Members from the staff of the Department of Extension took part in the programmes of five summer camps ranging in scope from the Student Christian Movement Summer School at Carlyle Lake for students from Western Universities to the Boy Scouts Camp at Gull Lake. Three of the camps were carried on for the purpose of training leaders for the C. G. I. T. and C. S. E. T. work among girls and boys respectively in Alberta. At these camps topics between the two extremes on "Evolution" and Bible Study courses were taken by lecturers of the Department of Extension.

In addition two short courses in Agriculture were given at Monitor and Red Deer in co-operation with the Provincial Department of Agriculture. The attendance at these courses was large, and the interest well sustained. It would seem that there is a large field waiting to be developed along the line of agricultural Chautauquas where an adaptation of the Chautauqua plan of running several programmes at the same time in groups of communities can be used to advantage in economizing the time and travelling expenses of the lecturers.

St. John Ambulance Association.

The Director of the Department of Extension is still acting as Honorary Secretary Treasurer of the Provincial Council of the St. John Ambulance Association. Through this organization valuable educational work has been done. During the year [illegible] persons have been instructed in First Aid and Home Nursing and certificates issued in the courses. A noteworthy feature of this work is the [illegible] competitions in First Aid [illegible] won by an Alberta team, the First Aid team of the International Coal and Coke Company of Coleman capturing the Dominion championship for Miners' First Aid teams, and also the Irish championship for all Canada. Two competitions are held, the Coderre cup, representing the miners' championship, and the Macdiarmid trophy, representing the open championship, [illegible] in Alberta. A public meeting in honour of the winning team was held at Coleman and was very largely attended. The Honourable Chairman on behalf of the Provincial Council made an address and presented the trophies. There is a steadily increasing interest in this very valuable form of adult education.

Staff.

With regard to the staff of the Department of Extension, it remains to be recorded as on previous years that the loyal and enthusiastic [illegible] leave nothing to be desired. Under the handicap of somewhat inadequate resources a steadily expanding programme of work has been carried out. Such a result can only be achieved by [illegible] and unselfish co-operation from all concerned. Mention might also be made of the willing co-operation on the part of members of other departments in the University who have given of their time and ability in special courses to organizations in all parts of the Province.

In conclusion, the outstanding feature of the work of the Department of Extension this year, as in previous years, has been the steadily increasing demand for the various services it has to offer. Never before has the diversity of requests been so great nor have the expressions of appreciation on the part of those who have benefitted been warmer. Some of the letters received are almost pathetic in what they indicate of a great need being to some extent at least supplied in the lives of many people who otherwise would lack educational or cultural opportunities.

All of which is respectfully submitted.

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Members from the staff of the Department of Extension took part in the programmes of five summer camps ranging in scope from the Student Christian Movement Summer School at Carylo Lake for students from Western Universities to the Boy Scouts Camp at Gull Lake. Three of the camps were carried on for the purpose of training leaders for the C. G. I. T. and C. S. E. T. work among girls and boys respectively in Alberta. At these camps topics between the two extremes on "Evolution" and Bible Study courses were taken by lecturers of the Department of Extension.

A P P E N D I X III

THE REPORT OF THE PROVINCIAL LABORATORY

CHAPTER I 1

THE BIRTH OF THE LOCAL PRODUCER

CHAPTER II 15

REPORT OF THE DIRECTOR OF THE PROVINCIAL LABORATORY

1923

I have the honour to submit the following report of the work done in the Provincial Laboratory during the year 1923.-

LABORATORY EXAMINATIONS

TABLE # 1 gives in some detail the examinations made during the year under consideration in comparison with the work done during the preceeding year. It will be observed that there has been a considerable increase in the number of water samples examined, and in the examination of pathological material, while the most outstanding decrease is in the examination of smears for the presence of the gonococcus. This relative alteration has, however, increased the commercial value of the work as set forth in the Appendix.

TABLE # 1

		Total No. Specimens 1922	Total No. Specimens 1923	Increase	Decrease
COMMUNICABLE DISEASES:	Sputum	451	408		43
	Diphtheria	1,229	1,078		151
	Typhoid Fever	217	156		61
WATERS:	Bacteriological	412	594	182	
	Chemical	251	281	30	
MILKS:	Bacteriological	586	545		
	Bacteriological & Chemical	42	9		
	Chemical	10	56		28
MOTHER'S MILK:		61	57		4
MISCELLANEOUS EXAMINATIONS:		837	912	75	
SMEARS FOR THE PRESENCE OF THE GONOCOCCUS		1,346	838		508
BLOODS FOR WASSERMANN TEST:		5,008	5,061	53	
PATHOLOGICAL HISTOLOGICAL MATERIAL:		1,501	1,964	463	
		11,951	11,959	803	795

TABLE # 2, shows the number of containers prepared and distributed, and the quantity of Typhoid and other vaccines prepared and sent out.

TABLE # 2.

	CONTAINERS	VACCINE
WATER CONTAINERS: Bacteriological	376	
WATER CONTAINERS: Chemical	269	
SPECIAL CONTAINERS:	1,665	
BLOOD CONTAINERS:	4,470	
TYPHOID VACCINE:		1,825 c.c
OTHER VACCINES:		575 c.c
	6,780	2,400 c.c

TABLE # 3 indicates the part played by the Laboratory in the control of infectious diseases.

TABLE 2. shows the number of containers
produced and distributed, and the quantity of Symbold
and other vaccines produced and sent out.

TABLE 2.

TABLE 3 illustrates the work carried by the
laboratory in the control of infectious diseases.

TABLE # 3

SPECIMENS EXAMINED FOR THE DIAGNOSIS OF COMMUNICABLE DISEASES

DISEASES	No. of Specimens		No. of Physicians	No. of Post Offices
	POSITIVES	NEGATIVES		
PULMONARY TUBERCULOSIS	64	344	226	107
DIPHTHERIA	222	856		
TYPHOID FEVER	25	131		
TOTAL	311	1,331	226	107

Specimens received each month

Month	Sputum	Diph	Typ'd	Total
Jan.	46	89	21	156
Feb.	30	71	5	106
Mar.	49	62	11	121
Apr.	40	43	5	88
May	46	76	9	131
June	31	101	10	142
July	26	55	8	89
Aug.	35	47	14	96
Sept.	19	67	24	110
Oct.	30	112	33	175
Nov.	21	181	11	213
Dec.	36	174	5	215
	408	1,078	156	1,642

Anexo 1.3

[illegible]

TABLE # 4 shows the number of blood examinations for the diagnosis of Syphilis performed during the year. Dr. Shaw has continued to do this work.

TABLE # 4

WASSERMANN REACTION FOR THE DIAGNOSIS OF SYPHILIS

Bloods Received	Bloods Examined	Bloods positive to reaction	Bloods negative to reaction	Bloods unsuitable for examination
5153	5061	989	4072	92

PATHOLOGICAL HISTOLOGICAL DIAGNOSIS

The increase in this work has been 30 %. Last year 1,501 specimens were examined while during the present year 1,964 specimens have been examined. This work has been under Dr. J. J. Owor, assisted by Dr. H. M. Vango.

TABLE 4 shows the number of blood examinations for the diagnosis of Syphilis performed during the year. Dr. Shaw has continued to do this work.

TABLE 4

Bloods Received	Bloods Examined	Bloods positive Wassermann reaction	Suitable for examination
5157	5063	480	92

BACTERIOLOGICAL HISTOLOGICAL DIAGNOSIS

The increase in this work has been 30 %. Last year 1,301 specimens were examined while during the present year 1,696 specimens have been examined. This work has been under Dr. A. C. Shaw, assisted by Dr. H. H. Yango.

WATER WORK

The number of samples of water examined bacteriologically was 594, the number examined chemically 281, an increase of 212 examinations (32 %) over the figures of last year. Both bacteriological and chemical examinations of water are highly technical and the interpretation of the results is something which requires considerable experience. The chemical part of the work has been carried out by Mr. J.A.Kelso.

TABLE # 5 gives the details of these examinations.

TABLE # 5

Number of samples of water examined bacteriologically and found unfit for human consumption	90	
Number of samples of water examined bacteriologically and found fit for Human consumption	499	
Number of samples of ice examined Bact. and found fit for human consumption	4	
Number of samples of ice examined bact. and found unfit for human consumption	1	
Number of samples of water examined chemically and found unfit for human consumption	52	
Number of samples of water examined chemically and found fit for human consumption	229	
TOTAL	875	875

WATER WORK

The number of samples of water examined bacteriologically was 594, the number examined chemically 587, an increase of 111 examinations (32 %) over the figures of last year. Both bacteriological and chemical examinations of water are highly technical and the interpretation of the results is especially which requires considerable experience. The chemical part of the work has been carried out by Mr. A.A.Tolan.

TABLE 5 gives the details of these examinations.

TABLE 5

Number of samples of water examined bacteriologically and found unfit for human consumption	59	
Number of samples of water examined bacteriologically and found fit for human consumption		499
Number of samples of ice examined bact. and found unfit for human consumption	4	
Number of samples of ice examined bact. and found unfit for human consumption	1	
Number of samples of water examined chemically and found unfit for human consumption	32	
Number of samples of water examined chemically and found fit for human consumption		359
TOTAL	895	858

EXAMINATION OF COW'S MILK

TABLE # 6 gives the details of these examinations

TABLE # 6

Number of milk samples received		620
Number of milk samples examined	610	
Number of milk samples unsuitable for examination	10	
	620	620

Number of milk samples examined bacteriologically	545	
Number of milk samples examined bacteriologically and chemically	56	
Number of milk samples examined chemically	9	
Number of milk samples unsuitable for examination	10	
TOTAL	620	620

MISCELLANEOUS EXAMINATIONS

Miscellaneous examinations include a varied list such as Medico Legal examinations (blood stains, etc.), examinations of foods, examinations in connection with diseases of animals, etc.

THE EXAMINATION OF SMEARS FOR GONORRHOEA

There were 838 specimens examined for the presence of the gonococcus.

The whole respectfully submitted.

I have the honour to be

Sir

Your obedient servant.

Allan C Rankin

DIRECTOR.

SEE APPENDIX

I have the honour to be

Sir

Your obedient servant.

APPENDIX

ESTIMATED COMMERCIAL VALUE OF WORK UP MINIMUM CHARGE WERE MADE

MATERIAL	No. of Specimens	Price per Specimen	TOTAL
SPUTUM	408	$ 2.00	$ 816.00
DIPHTHERIA	1,078	2.00	2,156.00
TYPHOID FEVER	156	2.00	312.00
WATERS	875	15.00	13,125.00
MILKS	610	5.00	3,050.00
MOTHER'S MILK	57	2.00	114.00
MISCELLANEOUS EXAMINATIONS	912	5.00	4,560.00
GONORRHOEA	838	2.00	1,676.00
WASSERMANN TEST	5,061	5.00	25,305.00
PATHOLOGICAL MATERIAL	1,964	5.00	9,820.00
TOTAL	11,959		60,934.00

INCREASE $ 4,461

A P P E N D I X IV

THE REPORT OF THE INDUSTRIAL LABORATORY

APPENDIX IV

THE REPORT OF THE INDUSTRIAL LEGISLATOR

Annual Report of the Industrial Laboratory

I beg to report as follows regarding the work of the Industrial Laboratories and the work of the Provincial Analyst for the year 1933.

Analyses and Examinations

Beer	586
Spirits	369
Washes	45
Poison examinations-	
Human	57
Animal	150
Drugs under Narcotic Drug Act-	
Cocaine	49
Morphine	6
Water-Domestic Supply-	286
Water- Boiler	72
Sewage	3
Milk	98
Food	39
Medicine	26
Tissue	6
Butter	11
Arsenic	10
Ore, etc.	203
Black Sand	48
Clay	12
Soil	13
Gravel	5
Gas	11
Coal	191
Coal Ash	15
Gasoline	10
Oil	9
Wax	3
Soaps, Etc.	10
Paint	8
Antiseptic	8
Formaldehyde	2
Meat Pickle	4
Creosote Oil	4
Boiler Scale	3
Boiler Compounds	3
Baking Powder	2
Feed	5

Annual Report of the Provincial Laboratory

I beg to report as follows regarding the work of the Provincial Laboratory and the work of the Provincial Analyst for the year 1921.

Analysis and Examination

Beer	280
Spirits	800
Wines	46
Foisons examinations	
Poison	67
Animal	180
Drugs, waste Chemicals	
Drug Ana-	
Boracic	19
Morphine	4
Baby-Patents Nursing-	284
Baby- Indian	91
Borax	3
Milk	850
Meat	80
Medicine	96
Tissue	8
Butter	11
Arsenic	10
Ore, etc.	108
Black Sand	49
Clay	19
Salt	11
Gravel	3
Ore	11
Coal	321
Coal Ash	14
Cremains	10
Oil	9
Tea	5
Paint, Etc.	30
Fabric	8
Antiseptic	11
Formaldehyde	3
Test Bottle	4
Creosote Oil	4
Motive Fuels	2
Boiler Compounds	3
Mining Powder	2
Meal	5

Oyster Shell	4
Tankage	6
Asphalt and Tar	5
Metal	3
Strychnine	7
Acid	2
Bricks	4
Cement, gravel, etc.	40
Miscellaneous	30

As Provincial Analyst I was required to give evidence in many court cases throughout the province and to give technical advice to various government departments and to industries.

Working with the Department of Geology many examinations were made for prospectors and assistance given to them.

I acted as a member of the committee of the Engineering Institute of Canada investigating the action of alkali on concrete and as a member of the advisory committee regarding patent and proprietary medicines and extracts.

Respectfully submitted,

Provincial Analyst,
Director Industrial Laboratories.

Oyster Shell	4
Tankage	6
Asphalt and Tar	8
Meal	3
Phosphate	7
Milk	8
Borate	4
Cement, gravel, etc.	60
Miscellaneous	30

A P P E N D I X V

PUBLICATIONS DONE BY MEMBERS OF THE STAFF

OF THE

UNIVERSITY OF ALBERTA

Department of Anatomy-

Papers published by Dr. R.F. Shaner,

Assistant Professor of Anatomy:

"On the Smooth Muscle in the Turtle's Heart"-

Anatomical Record, (U.S.A.), vol 25, No. 2, March 1923.

"On the Musculature of the Vertebrate Ventricle"-

Journal of Anatomy (British) October 1923.

Department of Botany-

Papers published by Dr. F.J.Lewis,

Professor of Botany:

"Forest Line "- Canadian Alpine Journal.

"On the Phenomena Attending Seasonal Changes in

Leaf Cells of Picea Canadensis (Mill), B.S.P. -

by F.J.Lewis and C.M.Tuttle- New Phytologist.

"The Anatomy of Coniferous Buds"- by F.J.Lewis and

E.S.Dowling- Annals of Botany .

Department of Biochemistry-

by Dr. J. B. Collip, Professor

of Biochemistry:

"Glucokinin", A Demonstration of a Hypoglycaemia-Producing Principle in the Crystalline Style of the Clam" , Transactions of the Royal Society of Canada, Third Series, Vol XVII, 1923.

"Glucokinin", A New Hormone Present in Plant Tissue", Preliminary Paper, - reprinted from The Journal of Biological Chemistry, Vol. LVI, No 3, June, 1923.

"Glucokinin," Second Paper, reprinted from The Journal of Biological Chemistry, Vol. LVII, No 1, August 1923.

"The Demonstration of a Hormone in Plant Tissues to be Known as "Glucokinin" - The Proceedings of the Society for Experimental Biology and Medicine, 1923, XX, pp, 381.

"Delayed Manifestation of the Physiological Effects of Insulin following the Administration of Certain Pancreatic Extracts "- The American Journal of Physiology, Vol. 63, No 3. Feb. 1923.

"The Occurrence of Ketone Bodies in the Urine of Normal Rabbits in a Condition of Hypoglycaemia following the Administration of Insulin- A condition of Acute Acidosis Experimentally Produced.

The Demonstration of an Insulin-Like Substance in the Tissues of the Clam (Mya Arenaria)

The Original Method as used for the Isolation of Insulin in Semipure Form for the Treatment of the First Clinical Cases" - The Journal of Biological Chemistry, Vol. LV, No 2, Feb. 1923.

"The History of the Discovery of Insulin "- Read before the Second Annual Meeting of Pacific Northwest Medical Association, Seattle, Washington, June, 1923.

Department of Biochemistry

by Dr. J. B. Collip, Professor of Biochemistry:

"Glucokinin", A Demonstration of a Hyperglycaemic-Producing Principle in the Organism Other than the Glucagon", Transactions of the Royal Society of Canada, Third Series, Vol XXII, 1928.

"Glucokinin", A New Hormone Present in Plant Tissue", Preliminary Paper - reprinted from The Journal of Biological Chemistry, Vol. LVI, No 1, June, 1923.

"Glucokinin," Second Paper, reprinted from The Journal of Biological Chemistry, Vol. LXII, No 1, August 1925.

"The Demonstration of a Hormone in Plant Tissues to be Identical with "Glucokinin" - The Transactions of the Society for Experimental Biology and Medicine, 1925, XX,pp.171.

"Colloid Identification of the Physiological Effects of Insulin following the Administration of Certain Pancreatic Extracts" - The American Journal of Physiology, Vol. 63, No 3. Mch. 1923.

"The Occurrence of Ketone Bodies in the Urine of Normal Rabbits in a Condition of Hyperglycaemia following the Administration of Insulin- A condition of Acute Acidosis Experimentally Produced.

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The Optical Method as used for the Isolation of Insulin in Sensitive Form for the Treatment of the Pure Diabetic Case" - The Journal of Biological Chemistry, Vol. LV, No 1, Mch. 1923.

"The History of the Discovery of Insulin" - Read before the Second Annual Meeting of Pacific Northwest Medical Association, Seattle, Washington, June,1923.

Department of Classics-

By Dr. Geneva Misener, Associate Professor of Classics:

Article - Toma Physician and Physiognomist- Classical Philology, Jan. 1923.

Book Review- Freiwilliger Opfertod bei Euripides von Johannes Schmitt, Religionsgeschichtliche versuche und vorarbeiten, XVII Band, 2 Heft, Classical Philology, October 1923.

By Dr. W. G. Hardy, Assistant Professor of Classics:

"Ovid Am. ii,19 and iii,4 "- Classical Philology, July 1923.

Department of English-

"A Book of Canadian Prose and Verse", with critical notes, compiled and edited by E. K. Brandus and R.H.Brandus, (Macmillan)

"The Song of Beowulf", translated by E.K.Gordon, (Dent)

Department of Electrical Engineering-

By Dr. E.J.McLeod, Associate Professor of Physics:

"The Variation with Frequency of the Power Loss in Dielectrics". Reprinted from the Physical Review, S.S., vol 21, No 1, Jan. 1923.

Department of History-

By Professor A.L.Burt-

"The Mystery of Walker's War", Canadian Historical Review, September 1922.

"The Horoscope of Mars"- Queen's Quarterly, February, 1923.

Department of Geology-

Publications by John A. Allan, Professor of Geology-

"Geological Reconnaissance in Alberta during 1931", Second Annual Report of the Scientific and Industrial Research Council, page 36.

"Mining Industry in Alberta in 1932 "- Canadian Mining Journal, Vol 44 #2, Jan. 1933, page 41.

"Geology of the Saunders Creek and Nordegg Coal Basins" (with R.L.Rutherford), Part I, Fourth Annual Report on the Mineral Resources of Alberta. Published by the Scientific and Industrial Research Council for Alberta- Sixty-six pages, 18 plates, 1 geological map.

"An Occurrence of Iron Ore on Lake Athabaska" (with A.E. Cameron) Part 2, Fourth Annual Report of the Mineral Resources of Alberta, thirty-three pages, 11 plates, 1 figure, 2 geological maps.

"Geological Investigation During 1932. Third Annual Report of the Scientific and Industrial Research Council of Alberta, page 32.

"Some Problems Relating to the Cretaceous and Jurassic Stratigraphy in Alberta"- Transactions Royal Society of Canada, vol 17, 1923.

Maps

Map # 2- Geological Map, Saunders Creek and Nordegg Coal Basins, Scale 1: 125,000 (1 inch to 2 miles)

Map #3- Geological Map, Lake Athabaska, Scale about 1,790,000 (1 inch to 12 miles)

Map #4- Sketch map, Geology of Fishhook Bay on North Shore of Lake Athabaska, Approximate Scale 1 inch to 4000 feet.

Publications in the Department directed by Dr. J.A. Allan-

Criteria for the Determination of Sandstones of Upper Cretaceous Age in Alberta. Transactions Royal Society of Canada, Vol. 17, 1923, by J.O.G. Sanderson.

A New Species of Corythosaurus with Notes on Other Belly River Dinosauria- Canadian Field Naturalist- vol. 37, pp 45-52, March 1923, by Charles W. Gilmore, Iaurad by the National Museum, Washington, D.C.

A New Species of Lepidosaurian from the Belly River Cretaceous of Alberta, Canada- Transactions Royal Society of Canada, Vol. 17, 1923,- by C. W. Gilmore.

Publications by Ralph L. Rutherford, M.Sc., Ph.D.-

Map No. 1- Geological Map Drumheller Coal Field, Alberta.

Geology of Saunders Creek and Nordegg Coal Basins- Report No.6, Scientific and Industrial Research Council of Alberta.

Map No.2- Geological Map accompanying above Report, Scale 1:125,000.

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Department of Mathematics-

By Dr. J.W. Campbell, Associate Professor of Mathematics:

"The Orbit of the Spectroscopic Binary- H.R. 6532 and the Radial Velocities of Ten Stars"- Publications of Dominion Astrophysical Observatory, 1922.

Department of Mechanical Engineering-

By C. A. Robb, Professor of Mechanical Engineering-

"A Physical Test on a Natural (Methane) Gas Well,"- Transactions of the Royal Society of Canada, Third Series, 1923.

"Combustion Problems and Furnace Design"- The Engineering Journal of the Engineering Institute of Canada.

"Boiler Trials"- Third Annual Report of the Scientific and Industrial Research Council of Alberta, 1922.

Department of Mathematics.

By Dr. J.T. Campbell, Associate

Professor of Mathematics:

"The Orbit of the Quantrecoptis Binary- H.Z. 6328
and the Radial Velocities of Ten Stars".

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Department of Mechanical Engineering.

By C. A. Robb, Professor of
Mechanical Engineering.

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Series, 1933.

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Department of Physics-

"Audible Sonic Beats from Inaudible Sources",-
by Dr. R. W. Boyle, S. C. Morgan and J.F. Lehmann.

"A Photographic Method for Investigating the Interference of Ultra Sonic Wave Trains, The Velocity of High Frequency Sound in a Liquid ",-
by Dr. R. W. Boyle and J. F. Lehmann.

"Photographs of Ultra-Sonic Standing Waves and Certain Diffraction Effects ", by Dr. R. W. Boyle and J. F. Lehmann.

"A Determination of Ultra- Sonic Velocities in Water and in Sodium Chloride Solutions ", by Velocity of Sound and Adiabatic Compressibility in Certain Liquids by High Frequency Methods",
by Dr. R. W. Boyle and S. C. Morgan.

The above were read at the Royal Society of Canada, May 1923.

"Diffractive Scattering of Ultra-Sonic Energy",
by Dr. R. W. Boyle and J. F. Lehmann- Report to the Research Council of Canada, August ,1923.

"Note on the Diffraction of a Plane Wave by a Circular Aperture ", by Associate Professor Smith.

"Intensity of Diffracted Radiation Near a Circular Aperture ", by Associate Professor Smith.

Department of Physics-

Department of Physiology-

By Dr. A. W. Downs, Professor of Physiology:

"The Reaction of the Blood in Reference to the Regulation of Respiration and the Influence of Anaesthesia Thereon"- The Canadian Medical Association Journal, September 19[illegible]3,xii,625.

By Dr. A. W. Downs and Dr. Nathan B. Eddy:

"Further Observations on the Effects of the Subcutaneous Injection of Splenic Extract"- The American Journal of Physiology, October 1922, lxii,342.

"Some unusual Appearances of Nucleated Erythrocytes in the Circulation Following Repeated Injections of Splenic Extract"- The American Journal of Physiology, February 1923, lxiii, 479.

Department of Physiology-

By Dr. A. V. Bowes, Professor of Physiology:

"The Reaction of the Blood in Reference to the
Regulation of Respiration and the Influence of
Inorganic Ions". The Canadian Medical
Association Journal, September 1919,9:1,833.

By Dr. A. V. Bowes and Dr. Hattie E. Wade:

"Further Observations on the Effects of the Inhalation
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of Physiology, October 1919, 49:3,393.

"Some Chemical Aspects of Modified Hypothermia
in the Dissociation Following Repeated Injection
of Colonic Extract". The American Journal of
Physiology, November 1919, 50:1, 179.

Department of Political Economy-

By Dr. D. A. MacGibbon, Professor of Political Economy-

A Report on Banking in the Province of Alberta, presented to the Provincial Legislature .

An article- "The Canadian National Railways", Part IV of 'Social and Economic Conditions in the Dominion of Canada', Annals of the American Academy of Political and Social Science, May 1933.

By Mr. A. F. McGoun, Assistant Professor of Political Economy-

An article- "Higher and Lower Desires"- Quarterly Journal of Economics, February 1933.

By Mr. H. Patton, Lecturer in Political Economy-

Articles- "The Commonwealth Bank of Australia", Press Bulletin, Extension Department, University of Alberta, Feb 23rd, 1933.

"Britain's Unemployment Problem ", Journal of Commerce, (Cardinvale, Que.), May 18th, 1933.

Department of Agricultural Engineering-

By J. McGregor Smith, Professor of

Agricultural Engineering:

"Plows and Ploughing "- Bulletin published by the Department of Extension, University of Alberta.

Department of Animal Husbandry-

By Professor A. A. Dowell and J.H. Bowstead:

"Roughages for Pregnant Ewes "- Bulletin No 1, Department of Extension.

Department of Field Husbandry-

"Growing Sweet Clover "- Bulletin #3, University of Alberta, by G. H. Cutler and G. F. H. Buckley.

"Altaswede Red Clover" - by G.H.Cutler and G.F.H. Buckley, Bulletin #4, University of Alberta.

"Growing Registered Seed in Alberta" - G.H.Cutler and R.J.Fryer, Bulletin #3, University of Alberta.

"Progress in Agronomy in Western Canada" - by G.H.Cutler, Proceedings Western Canada Society of Agronomy, Dec. 1922.

"Growing Certified Seed Potatoes in Alberta " - by G. H. Cutler and G.B. Sanford, The Potato Magazine, Jan. 1923.

"Suitable Forage Crops for Western Canada" - by G. H. Cutler, -Nor'West Farmer, Winnipeg, March, 1923.

"Suitable Pasture Crops for Central and Northern Alberta." -by G. H. Cutler, Edmonton Journal Farm Weekly, March, 1923.

Department of Agricultural Engineering.

By A. Anderson Smith, Professor of Agricultural Engineering:

"Plans and Planting" - Bulletin published by the Department of Extension, University of Alberta.

Department of Animal Husbandry.

By Professor A. A. Dowell and J.H. Marshall:

"Handybook for Pregnant Mare" - Bulletin No 1, Department of Extension.

Department of Field Husbandry.

"Growing Sweet Clover" - Bulletin #3, University of Alberta, by O. H. Oehler and C. P. H. Buckley.

"Alsike and Clover" - by O.H.Oehler and C.P.H. Buckley, Bulletin #4, University of Alberta.

"Growing Recleaned Seed in Alberta" - O.H.Oehler and E.J.Pyper, Bulletin #5, University of Alberta.

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"Growing Certified Seed Potatoes in Alberta" - by O. H. Oehler and C.H. Bedford, The Potato Magazine, Jan. 1923.

"Suitable Varieties of Grain for Northern Alberta" - by O. H. Oehler, "Hoi'Meet Manor, Winnipeg, March,1923.

"Suitable Pasture Crops for Central and Northern Alberta." - by O. H. Oehler, Edmonton Journal, Farm Weekly, March,1923.

"Suitable Hay Crops for Central and Northern Alberta" - by C.H. Cutler, Edmonton Journal Farm Weekly, March 27,1923.

"Suitable Silage Crops for Central and Northern Alberta" - by C. H. Cutler, Edmonton Journal Farm Weekly, April 4,1923.

"Moisture Farming" - by G.H.Cutler,-Farmers' Advocate, Winnipeg, May 10,1923.

Publications by R. Newton, Professor of Plant Biochemistry:

"A method for estimating hydrophilic colloid content of expressed plant tissue fluids"- with R.A. Gortner, Botanical Gazette, vol 74, No 4, pp. 442-446, December 1922.

"Plant distribution as related to climate", Scientific Agriculture, vol 3, No 4, pp. 137-142, December 1922.

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"Colloidal Properties of Winter Wheat Plants in Relation to Frost Resistance" , Journal of Agricultural Science.

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"Movement in Wheat"- University of Alberta Press Bulletin, October 20,1922 .

"Growing Registered Seed in Alberta" - with G. H. Cutler, Bulletin #3, University of Alberta.

"Suitable Hay Crops for
Cowbird and Northern
Alberta " - by O.H. Cutler, Dominion Journal
Farm Family, March 27,1933.

"Suitable Silage Crops
for Central and Northern
Alberta " - by O. H. Cutler, Dominion Journal
Farm Family, April 4,1933.

"Potatoes Burning" - by O.H.Cutler,-Farmers' Advocate,
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Publications by H. Morton, Professor of Plant Biochemistry:

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Botanical Gazette", vol 74, No 4, pp. 449-464, December 1922.

"Plant distribution as related to silanin", Ecology
Ecology, vol 3, No 4, pp. 327-343, December 1922.

"Hardiness Studies with Winter Wheat", Proceedings
Western Canadian Society of Agronomy.

"Colloid Properties of Winter Wheat Plants in
Relation to Frost Resistance", Journal of
Agricultural Science.

Publications by E. J. Kraus, Assistant Professor of Field
Husbandry:

"Observers in Wheat", University of Alberta Press
Bulletin, October 20,1928 .

"Growing Sugar Beets
Used to Advantage" - with O. H. Cutler, Bulletin #5,
University of Alberta.

Department of Soils-

By Dr. J. D. Newton, Associate Professor of Soils:

"A comparison of the absorption of inorganic elements and of the Buffer Systems of Legumes and Non-Legumes and its bearing upon existing theories" - Soil Science, vol. XV, No 3 .

To the Board of Governors,
University of Alberta.

Sir:

Herewith is submitted the Financial Statement of the University of Alberta, for the year ending the 31st day of December 1923, including:

Capital Balance Sheet:

General Balance Sheet:

Income & Expenditure:

Schedules and Summaries:

These have been prepared under my direction and I believe properly and correctly set forth the operations for the year and the financial position as at December 31st, 1923.

Your obedient servant.

Bursar.

The Board of Governors,

University of Alberta.

:

Herewith is submitted the financial statement
the University of Alberta, for the year ending the
th day of December 1923, including:

Capital Balance Sheet:

General Balance Sheet:

Income & Expenditure:

Schedules and Summaries:

These have been prepared under my direction
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st December 31st, 1923.

Your obedient servant,

Bursar.

UNIVERSITY OF ALBERTA.

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UNIVERSITY OF ALBERTA
CAPITAL ACCOUNT / BALANCE SHEET
December 31st, 1923.

ETS.

University Site.			
Assessed Value,	$1,161,000.00		
Less Appreciation Reserve,	1,011,000.00	150,000.00	
Experimental Farm,		69,117.49	219,117.49
Buildings as per Schedule,			3,153,901.87
Furnishings & Equipment,		477,442.79	
Library Books,		48,705.47	
Travelling Libraries,		20,570.96	
Printing Presses,		9,885.46	556,604.68
Museum,			6,200.00
Sewers and Water Mains,			21,587.25
Grounds and Improvements,			65,872.51
Steam Lines,			32,419.25
Electric Light & Telephones,			3,953.74
Animal Husbandry,			56,172.80
Field Husbandry,			16,152.23
Bond Discount,	10,588.45		
Written Off,	1,588.45		9,000.00
			$4,140,981.82

ILITIES.

Debentures Payable Jan.1st/24,		2,400,000.00	
Aug. 2nd/25,		750,000.00	
Oct. 1st/25,		400,000.00	
July 1st/36		450,000.00	4,000,000.00
Accounts Payable,	17.87		
Unexpended Balance account of Hospital, New Wing,	564.77		582.64
Sundry contributions to Capital,			
Alberta Pharmaceutical,		6,192.63	
Library Books,		7,854.10	
Rockefeller Donation, (Interest)		6,317.75	20,364.48
			4,020,947.12
Due to General Account,			15,089.06
			4,036,036.18
Capital Reserve,			104,945.64
			$4,140,981.82

UNIVERSITY OF ALBERTA

GENERAL ACCOUNT - BALANCE SHEET

December 31st, 1923.

Assets

Inventories as per Schedule,	77229.38		
Insurance unexpired,	9810.25		
Accounts Receivable,	20458.22		
Due from Hospital Operating Account,	63136.29		
Due from Capital Account,	15089.06		
		185723.20	

Trust.

Cash in Imperial Bank,	445228.01		
Securities,	10397.80		
Due from General Account,	75000.00	530625.81	$716349.01

LIABILITIES.

Imperial Bank Overdraft,	19145.27		
Due to Trust Acct.	75000.00	94145.27	
Accounts payable, Gen.	5935.82		
Hospital,	19548.32	25484.14	
		119629.41	
Deferred Revenue,			
Room and Board Pre-payments,	1347.73		
General,	563.30	1911.03	
Surplus at Dec.31st/22	68539.88		
Deficit, 1923,	4357.12	64182.76	185723.20

Trust

Sundry Trust Accounts as per Schedule	530625.81	$716349.01

UNIVERSITY OF ALBERTA

GENERAL ACCOUNT - BALANCE SHEET

December 31st, 1932.

Assets

Investments as per Schedule,	771229.38	
Insurance unexpired,	9810.20	
Accounts Receivable,	20429.22	
Due from Hospital Operating Account,	651256.29	
Due from Capital Account,	150029.06	1852723.20

Trust.

Cash in Imperial Bank,	446229.01	
Securities,	10397.80	
Due from General Account,	73000.00	529626.81 $716549.01

LIABILITIES.

Imperial Bank Overdraft,	19149.27	
Due to Trust Acct.	73000.00	94149.27
Accounts payable, Gen.	5938.89	
Hospital,	139448.35	358294.14
		452443.41
Deferred Revenue,		
Room and Board Fee-		
payments,	1547.75	
General,	562.50	1971.03
Surplus at Dec.31st/32		
	688230.88	
Deficit, 1932,	4387.12	683843.76 1852723.20

Trust

Sundry Trust Accounts as per Schedule		529626.81 $716549.01

TRUST BALANCE SHEET.

December 31st, 1923.

ASSETS.

Cash in Imperial Bank,	$445,228.01	
Securities,	10,397.80	
Due from General Account,	75,000.00	
		$530,625.81

LIABILITIES.

General Trust Account,	18,222.74	
Student's Loan Fund,	433.60	
Rockefeller Grant,	500,000.00	
Alberta Pharmaceutical Assoc.	7,420.00	
Sir James Aiken Scholarship Fund,	2,109.28	
Women's University Club Loan Fund,	141.02	
Women's University Club Scholarship Fund,	1,222.98	
Moshier Memorial Fund,	359.26	
19th Alberta Dragoons I.O.D.E.	60.67	
Dr. Blais' Prize,	11.20	
Women's University Club Colonial History Book Account,	67.20	
Law Library Fund,	577.86	$530,625.81

TRUST BALANCE SHEET.

December 31st, 1923.

ASSETS.

Cash in Imperial Bank,	$446,228.01
Securities,	10,297.80
Due from General Account,	75,000.00
	$530,525.81

LIABILITIES.

General Trust Account,	18,373.74
Student's Loan Fund,	435.50
Rockefeller Grant,	500,000.00
Alberta Pharmaceutical Assoc. Fund,	1,420.00
Sir James Aikin Scholarship Fund,	2,109.28
Women's University Club Loan Fund,	141.08
Women's University Club Scholarship Fund,	1,228.98
Mounier Memorial Fund,	339.25
19th Alberta Dragoons I.O.D.E.	60.67
Dr. Black's Prize,	11.50
Women's University Club.	
Colonial History Book Account,	87.30
Law Library Fund,	377.66
	$530,525.81

STATEMENT OF EXPENDITURE AND INCOME for the year 1923.

		Expenditure.	Income.
vincial Government			
roportion Succession Duties 50%	82043.33		
roportion Corporation Tax 20%	95212.87		
rant from Legislature	256114.80		433280.00
erest and Exchange		221645.81	221493.99
kerfeller Foundation Donation			25329.62
s General		70.20	67260.00
minations Special		5059.03	6675. 00
iculture			
General		5365.74	
Field Husbandry		29456.13	4048.86
Animal Husbandry		58054.63	8753.87
Soils		11090.04	
Agricultural Engineering		5153.48	
Horticulture		7039.31	494.90
Dairy		1107.34	937.67
Entomology		4029.56	
ical Education		665.27	425.00
macy		1050.91	234.37
nsion Department.			
General		16331.01	
Library		8394.29	260.62
Visual Instruction		10901.58	7563.98
idences		23169.07	40830.46
ng Room		69960.57	80170.80
r Plant		41429.90	19455.01
istry		3556.83	
House		5735.05	787.00
hing Buildings.		22964.97	291.36

STATEMENT OF RECEIPTS
AND EXPENDITURE
for the year 1928.

Expenditure.	Income.
Civil Government	
Corporation Succession Duties 5%	85043.83
Corporation Corporation Tax 20%	39883.87
Grant from Legislature	555114.80
Arrest and Exchange	
Carnegie Foundation Donation	
& General	
minations Special	
ilantyre	
General	
Field Husbandry	
Animal Husbandry	
Soils	
Agricultural Engineering	
Horticulture	
Dairy	
Bacteriology	
...ical Education	
...ary	
Education Department.	
General	
Library	
Visual Instruction	
...idences	
...ing Room	
...er Plant	
...istry	
...Rooms	
...ing Buildings.	

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STATEMENT OF EXPENDITURES, etc. (Cont'd).

	Expenditure.	Income.
Calendars & Advertising	3,003.86	
Library	2,070.97	
Scholarships and Medals	1,196.00	971.00
Insurance	6,219.05	
Laboratories	17,479.94	993.21
Travelling	1,291.68	
Bank Interest	2,536.28	125.47
Upkeep of Motor Cars	1,378.48	
General Expenses	10,727.46	2,000.00
Bookstore	24,288.62	25,137.23
Printing	32,069.32	38,025.18
Faculty Houses	1,213.63	6,060.00
Building Repairs & Upkeep	12,667.08	2,496.65
Provincial & Industrial Laboratory	34,140.39	1,654.59
Teachers Courses	8,058.75	
Works Department	33,913.34	33,454.90
Salaries	287,041.74	
	$ 1,031,527.31	$1,029,185.74
Bond Discount written off	1,588.45	
Bad Debts written off	427.10	
Excess Expenditure over Income		4,357.12
	$ 1,033,542.86	$1,033,542.86

DEPARTMENT OF AGRICULTURE, etc. (Cont'd).

		Income.
Uniforms & Advertising	5,065.65	
Library	8,670.87	
Scholarships and Medals	1,196.00	971.00
Insurance	6,319.65	
Laboratories	47,479.94	938.81
Travelling	1,291.05	
Bank Interest	2,556.55	138.47
Upkeep of Motor Cars	1,374.45	
General Expenses	10,727.66	5,000.00
Poultry	84,298.65	15,127.05
Printing	32,340.55	32,032.15
Faculty Houses	1,215.65	6,060.00
Building Repairs & Upkeep	22,807.05	5,436.65
Provincial & Industrial Laboratory	34,140.25	1,854.80
Veterinary Surgeon	8,088.75	
Office Department	23,213.54	23,454.00
Salaries	207,041.74	
	$ 1,021,207.31	$1,089,198.74
Bond Discount written off	1,364.45	
Bad Debts written off	427.10	
Excess Expenditure over Income	4,287.15	
	$ 1,027,646.01	$1,089,198.74

UNIVERSITY OF ALBERTA HOSPITAL

DECEMBER 31, 1923

Assets			
Current			
Accounts Receivable.			
Dominion Government Dept. S.C.R.	$22,883.52	19151.17	
Alta. Government Grant	26,485.00		
Alta. " Misericordia	1,963.00		
City of Edmonton	3,085.50		
Orthopedic	1,504.00		
	55,921.02	5x188.67	
Dept. S.C.R. Patients	7,653.32		
Civilian Patients	28,512.94	92,087.28	
		88354.93	
Equipment & Inventories			
Food and Ice	1,211.14		
Coal	168.75		
Drugs	2,200.00		
Insulin	9.40		
Cleaning Supplies	230.31		
Laundry Supplies	78.94		
	3,898.34		
Equipment, (General)	63,896.32		
Equipment, (New Wing)	6,500.53	74,295.39	
DEFERRED Charges			
Unexpired Insurance		1,190.34	
Fixed			
Building Fixtures		3,895.16	
Revenue & Expenditure Account			
Excess Expenditure		20,010.33	$191,478.50
			187.746.15
LIABILITIES			
University Control Account		82,387.11	
Reserve Account for Bad Debts and free Service rendered		34,413.50	3,681.15
Equipment Liability		62,378.20	
Profit on Exchange, Rockefeller Grant		12,299.69	
			$191,478.50
			187.746.15

MEMO		
University Control Account	$82,387.11	
Less payments Jan. 1924 entered by General Office as 1923	17,195.38	
	65191 73	
Less Sundry Accounts not received by General Office	2,055.44	
	$63,136.29	

07

BUILDINGS

Medical and Chemistry Building		$ 1068081.16
Arts		667695.69
Power Plant and South Laboratory		270420.34
Mining Engineering		141049.19
Heating Plant		56447.17
Gas Plant		12307.51
Athabasca Residence		207944.80
Pembina Residence		260839.41
Assiniboia Residence-		213046.40
Dining Hall		78307.68
Faculty Residences		79256.71
Agricultural Buildings:		
Baxus	72250.51	
Stock Judging Pavilion	4739.82	
Silos	6624.90	
House on Farm	2398.45	
Dairy	994.80	
Well	686.25	
Root House	1436.81	
Sheeks	1054.11	90185.65
Greenhouse		1427.40
Root House		445.00
Ice House		463.49
Astronomical Observatory		127.48
Construction Office		1235.64
Carpenter Shop		2365.17
Post Office		400.65
Bicycle Rack		123.50
Gravel		1731.83
		$3,153,901.87

BUILDINGS

Agricultural Buildings:	
[illegible]	72280.81
[illegible] Judging Pavilion	4759.82
[illegible]	6824.90
[illegible] on Farm	2390.45
[illegible]	994.80
[illegible]	686.25
[illegible] Horse	1436.81
[illegible]	1064.11

FURNISHINGS AND EQUIPMENT

Architecture		$ 4310.20
Gymnasium		4028.32
Household Economics		5747.97
Motor Truck and Auto		2406.85
Residenses		74800.45
Main Teaching Buildings		63188.40
Anatomy		12793.49
Agriculture		6340.00
Biology		10887.79
Bacteriology & Pathology		10551.20
Chemistry		58865.88
Dairying		4732.79
Dentistry		3889.28
Drawing		143.55
Engineering Mining		19887.76
" Civil		4861.26
" Electrical		1322.85
Geology		9578.17
Mathematics		1756.70
Pharmacy		574.39
Physics		34765.57
Psychology		406.73
Physiology and Bio Chemistry		29289.54
Soils		9553.94
Zoology		6912.56
Entomology		959.35
Agricultural Engineering		1398.73
Industrial Laboratory		377.77
Movable Plant + Tools (Carpenter)		2059.70
Machine Shop		6050.21
Medical & Chemistry Building		
Engineering	44559.41	
Sundry	42501.88	87061.29
		$477442.79

FURNISHINGS AND EQUIPMENT

Architecture		$ 4310.20
Gymnasium		4028.22
Household Economics		8747.97
Motor Truck and Auto		2406.85
Realdeness		74800.46
Main Teaching Buildings		65188.40
Anatomy		12793.49
Agriculture		6540.00
Biology		10887.75
Bacteriology & Pathology		10581.20
Chemistry		8886.38
Dairying		4732.75
Dentistry		3889.28
Drawing		142.55
Engineering Mining		12887.76
" Civil		4851.20
" Electrical		1322.85
Geology		9878.17
Mathematics		1756.70
Pharmacy		874.39
Physics		34766.87
Physiology		406.75
Physiology and Bio Chemistry		29289.54
Soils		9585.94
Zoology		6912.36
Entomology		975.35
Agricultural Engineering		1859.73
Industrial Laboratory		377.77
Machine Shop		6080.83
Medical & Chemistry Building		
Engineering	44589.42	
Summary	42803.88	87063.30
		$477442.79

09

SCHEDULE OF FEES

December 31st, 1923

Arts	$ 11,933.50	11,370.62
Arts & Applied Science	2,655.00	2797.50
Applied Sciences	7,015.00	7015.00
Medicine	17,401.00	18202.00
Law	2,927.00	2780.00
Arts & Law	2,690.00	1605.00
Graduate	795.00	762.50
Dentistry	3,215.00	3140.00
Correspondence	2,334.00	1283.00
Arts & Medicine	2,610.00	3080.00
Arts & Agriculture	200.00	160.00
Pharmacy (Lic)	1,917.50	1715.00
" (Degree)	750.00	600.00
Household Economics	1,237.50	1740.00
Commerce	2,125.00	1633.50
"A" Languages	2,025.00	2000.00
Summer School	959.50	1459.00
Agriculture	3,397.00	2366.00
B. Education	260.00	100.00
B. D.	60000	15.00
Late Registration	723.00	300.00
Nurses.		300.00
	$ 67,280.00	64434.12

Expenditure (S.R. Laycock, trips to Calgary. 70.20 1020.10

Hess Appeal to Calgary

Teachers.

re. Legislative Council Resp.

6347.02
146
6326.80

64434.12
146
64288.12

S U M M A R Y

December 31st 1923.

Vote 42. Schedule of Fees.

		Expenditure	Revenue
ecial Fees			
Supplementals	949.50	834.50	
.I.S.		40.00	
ental		50.00	
edicine	200.00	699.00	
harmacy	25	125.00	
.A.	715	690.00	
aw	685	1590.00	
isi Fees	115	112.00	
ranscript	240	106.00	
egree Fee	2185	1430.00	
esiding Fee	7.50	7.50	
ppeals	50.00	97.00	
ummer Reading	40.00	194.00	
ptometry	75.00	45.00	
eterinary		25.00	
xtension - Correspondence			
Political Ec.		136.00	
urses' Registration	995.00	498.00	
	6282.00		$6,675.00
edicine	354.00	468.00	
pecials	230.82	537.50	
hartered Accountancy	349.50	282.00	
upplementals		65.50	
ptometry	124.00	72.00	
.I.S.		42.00	
urses	554.95	509.60	
aw	802.50	1098.00	
harmacy		69.00	
triculation		115.00	
egree		126.00	
rofessional Engineering	53.50	90.00	
inting and Stationery	2424.96	1457.23	
ndries	182.16	122.30	$5,059.03
	5116.39		
			1165.61

Year ended 31 March.

	Expenditure	Revenue

SCHEDULE OF SALARIES

President	Dr. H. M. Tory	8000.00	
President's Secy.	Miss B. Ockley, B.A.	1650.00	9,650.00
Registrar's Office			
Registrar	C.E.Race, B.A., C.A.	4250.00	
Asst.Registrar	D.J.Teviotdale,M.A. (8½ mos.) (resigned)	1275.00	
Asst.Registrar	Miss Tregillus,M.A. (10 mos.)	1152.35	
Clerk of Records	Miss Mc Intosh, B.A.	1020.00	
Stenographer	Miss B.D.Gardner,B.A.	990.00	
Stenographer	Miss F.Stubbs, B.A.	1320.00	
Examinations Clerk	Miss Fulmer	440.00	
	Extra Assistance)Mrs.S.C.Morgan	15.00	
	)A.Harvey	65.00	
	)Miss B.Montgomery	5.00	
	Freshman Committee	65.00	10,597.35
Bursar's Office			
Bursar	A. West	4000.00	
Accountant	G. P. Ponton	2100.00	
Bookkeeper	J. F. Fraser	1800.00	
Cashier	Miss M. Talbot	1500.00	
Ledgerkeeper	J.F.Falkenburg-8 mos.	627.50	
Clerk	A. E. Dingle-11 mos.	660.00	
"	R.W.Adshead-1 mo.	55.00	
"	E.R.Moore-4 mos.	111.00	
Office Boy	W. Sharpe	480.00	
Stenographers	Miss L.M.Carrigan-8 mos.	756.00	
	Miss M.C. Corbett-4 mos.	345.00	
	Miss J.L. Corbett	900.00	
	Miss H.E. Ball	1020.00	
General Stenographer-Miss A.Malcolmson 3 mos.		255.00	
Switchboard Operator-Miss P. Ball		900.00	
Extra Assistance	Miss McMillan	60.00	
	Miss Fife	53.22	15,622.72
	Less Refund,		$2450.00
Library			
Librarian	D. E. Cameron, B.A.	3200.00	
Assistant	Miss K. Calhoun	1900.00	
	Miss G. Jackson	1500.00	
Stenographer	Miss Y. Richard	935.00	
Extra Assistance	Miss E. Andrews	132.14	
	J. A. Morrison	60.00	7,727.14
Faculty of Arts & Science			
Dean	W. A. R. Kerr, M.A., Ph.D.	500.00	
Secy.	Miss M. Archibald,B.A.	1080.00	1,580.00
Faculty of Medicine			
Dean	A.C.Rankin,M.D.,D.P.H.	500.00	500.00
Faculty of Applied Science			
Dean	R.W.Boyle, M.A.,Ph.D.	500.00	500.00

SCHEDULE OF SALARIES

President	Dr. H. M. Story	8000.00	
President's Secy.	Miss B. Oakley, B.A.	1680.00	9,680.00
Registrar's Office			
Registrar	G.H.Rose, B.A., D.A.	4250.00	
Asst.Registrar	D.J.Tevistdale,M.A.		
	(8½ mos.) (resigned)	1275.00	
Asst.Registrar	Miss Treglliva,M.A.		
	(10 mos.)	1182.35	
Clerk of Records	Miss Mc Intosh, B.A.	1020.00	
Stenographer	Miss B.D.Gardner,B.A.	990.00	
Stenographer	Miss F.Stubbs, B.A.	1320.00	
Examinations Clerk	Miss Palmer	440.00	
	Extra)Mrs.E.O.Mor-		
	Assistance) gan	18.00	
	)A.Harvey	65.00	
	)Miss B.Mont-		
	)gomery	6.00	
	Freshman Committee	65.00	10,897.35
Bursar's Office			
Bursar	A. West	4000.00	
Accountant	G. P. Ponton	2100.00	
Bookkeeper	J. P. Fraser	1800.00	
Cashier	Miss M. Talbot	1500.00	
Ledgerkeeper	J.P.Talkenburg-8 mos.	827.50	
Clerk	A. M. Dingle-11 mos.	660.00	
"	R.W.Adshead-1 mo.	55.00	
"	H.H.Moore-4 mos.	111.00	
Office Boy	W. Sharpe	480.00	
Stenographers	Miss L.M.Carrigan-8 mos.	756.00	
	Miss M.G. Corbett-4 mos.	345.00	
	Miss J.L. Corbett	900.00	
	Miss H.M. Bell	1020.00	
General Stenographer-Miss A.Malcolmson			
	3 mos.	255.00	
Switchboard Operator-Miss P. Bell		900.00	
Extra Assistance	Miss McMillan	60.00	
	Miss Pyle	53.35	15,822.75
	Less Refund,		$2250.0
Library			
Librarian	D. K. Cameron, B.A.	3200.00	
Assistant	Miss K. Colborn	1900.00	
	Miss G. Jackson	1500.00	
Stenographer	Miss Y. Richard	955.00	
Extra Assistance	Miss E. Andrews	132.14	
	J. A. Morrison	60.00	7,727.14
Faculty of Arts & Science			
Dean	W. A. M. Kerr, M.A.,		
	Ph.D.	500.00	
Secy.	Miss M. Archibald,B.A.	1080.00	1,580.00
Faculty of Medicine			
Dean	A.C.Rankin,M.D.,D.P.H.	500.00	500.00
Faculty of Applied Science			
Dean	R.W.Boyle, M.A.,Ph.D.	500.00	500.00

Faculty of Agriculture			
Dean	E.A.Howes,B.S.A.	500.00	
Secretary	Miss B.D.Lewis	960.00	1,460.00
Provost's Department			
Provost	J.M.MacEachern,M.A.Ph.D.	500.00	
Advisor to Women Students	Miss F.E.Dodds,B.Sc.	2400.00	2,900.00
Classics			
Professor	W.H.Alexander,M.A.,Ph.D.	4500.00	
Associate Professor	Geneva Misener,M.A.Ph.D.	3100.00	
Lecturer	W.G.Hardy, M.A.	2800.00	
"	S.R.Laycock,M.A.,B.D.	1000.00	11,400.00
English			
Professor	E.K.Broadus,M.A.,Ph.D.	4500.00	
Associate Professor	R.K.Gordon,M.A.,Ph.D.	3750.00	
Lecturer	F.M.Salter,B.A.,A.M.	2300.00	
"	J.T.Jones, B.A.	1600.00	
Reader	Miss Mary Martin	100.00	
"	K. Broadus	100.00	12,350.00
Moderns (French and German)			
Dean	W.A.P.Kerr, M.A.,Ph.D.	4500.00	
Professor	J.F.Coar,M.A.,Ph.D. 8 mos.(leave of absence)	2666.64	
Associate Professor	E. Sonet, Bes.L.	3300.00	
Assistant	A.P.Pelluet	2700.00	
Lecturer	H.DeSavoye,Bes.L.,L.L.B.	2400.00	
"	Francis Owens,B.A.	2500.00	
Reader	J. Richard	100.00	
Extra Assistance re Dr.Coar's leave of absence	F. Owen	200.00	
	C. L. Gibbs	250.00	18,616.64
Philosophy			
Professor	J.M.MacEachran,B.A.,Ph.D.	4500.00	
Lecturer	John MacDonald,M.A.	2600.00	
	E.D.McPhee, M.A.	2400.00	9,500.00
Hebrew and Ancient Oriental History			
Lecturer	Rev.A.D.Miller,M.A., B.D.-6 mos.	300.00	300.00
Architecture and Drawing			
Professor	E.S.Burgess,A.R.I.B.A. (9 mos.)	3000.00	
Associate Professor	James Adam, M.A.	3000.00	6,000.00
Anatomy			
Professor	D.G.Revell,B.A.,M.D.	4250.00	
Asst. Professor	R.F.Shaver,Ph.D.	3000.00	
Lecturer	H.J.Minnish,M.D.-9 mos.	1575.00	
"	Evan Green,M.D.C.M	1500.00	
	Jas.Jackson, 3 mos.	450.00	
Technician	A.G.Fairall	1500.00	
Lab. Asst.	J.W.Smiles- 4½ mos.	360.00	
"	F.Omand- 3½ mos.	277.33	

Faculty of Agriculture			
Dean	R.A.Howes,B.S.A.	800.00	
Secretary	Miss E.D.Lewis	960.00	1,460.00
Provost's Department			
Provost	J.M.MacEachern,M.A.,Ph.D.	800.00	
Advisor to Women Students-Miss	F.M.Dodds,B.Sc.	2400.00	3,200.00
Classics			
Professor	W.H.Alexander,M.A.,Ph.D.	4800.00	
Associate Professor	Geneva Misener,M.A.,Ph.D.	3100.00	
Lecturer	W.G.Hardy, M.A.	2800.00	
"	S.R.Laycock,M.A.,B.D.	1000.00	11,400.00
English			
Professor	M.E.Brosdus,M.A.,Ph.D.	4800.00	
Associate Professor	M.K.Gordon,M.A.,Ph.D.	3750.00	
Lecturer	F.M.Salter,B.A.,A.M.	2800.00	
"	J.T.Jones, B.A.	1600.00	
Reader	Miss Mary Martin	100.00	
"	K. Broadus	100.00	13,350.00
Modern (French and German)			
Dean	W.A.R.Kerr, M.A.,Ph.D.	4800.00	
Professor	J.F.Cox,M.A.,Ph.D.		
	8 mos.(leave of absence)	2666.64	
Associate Professor	E. Sonet, Pes.L.	2300.00	
Assistant	A.F.Pelletier	2700.00	
Lecturer	H.DeSavoye,Des.L.,I.L.B.	2400.00	
"	Francis Owens,B.A.	2500.00	
Reader	J. Richard	100.00	
Extra Assistance)	P. Owen	800.00	
to Dr.Cox's leave)	G. L. Gibbs	280.00	19,648.64
of absence)			
Philosophy			
Professor	J.M.MacEachran,B.A.,Ph.D.	4500.00	
Lecturer	John MacDonald,M.A.	2600.00	
	E.D.Holmes, M.A.	2400.00	9,500.00
Hebrew and Ancient Oriental History			
Lecturer	Rev.A.D.Miller,M.A..		
	3.D.-6 mos.	300.00	300.00
Architecture and Drawing			
Professor	R.S.Burgess,A.R.I.B.A.		
	(9 mos.)	3000.00	
Associate Professor	James Adam, M.A.	3000.00	6,000.00
Anatomy			
Professor	D.G.Revell,B.A.,M.D.	4250.00	
Asst. Professor	R.F.Shaver,Ph.D.	3000.00	
Lecturer	H.J.Hannah,M.D.-9 mos.	1575.00	
"	Evan Green,M.D.C.M	1500.00	
	Jas.Jackson. 3 mos.	450.00	
Technician	A.G.Patrell	1200.00	
Lab. Asst.	J.W.Smiles- 4½ mos.	360.00	
"	P.Ouand- 8½ mos.	277.35	

atomy continued.			
monstrator	F.J. Folinsbee MR.C.S. L.R.C.P.	250.00	
"	J. Adamson M.D.	250.00	
"	J.A. MacPherson M.D.	250.00	
"	J. Orobko M.D.	200.00	
"	H.H. Hepburn M.D.C.M.	500.00	
"	W. Hustler M.D.	150.00	14512.33
ysiology			
ofessor	A.W. Downs M.A., M.D.DSc.	4500.00	
st. Professor	N.B. Eddy M.D.	2700.00	
cturer	E.C. Smith M.D.	1200.00	
b. Assistant	Chas. Croft	900.00	
" "	H.D. Nurse (5 mos.)	250.00	
" "	M.C.Murray (3 ")	180.00	
monstrator	I.S. Bell M.A., M.B.	750.00	10480.00
ochemistry			
ofessor	H.B. Collip M.A., Phd.	4000.00	
st. Professor	J.W. Scott M.D. Cm.(4 mos	833.32	
" "	G. Lochead (4 mos.)	766.64	
chnician	A.A. Long	1500.00	
b. Assistants	H.W. Smiles	566.12	
" "	J.F.K. English	277113	7943.21
inical Medicine			
ofessor	E.L. Pope M.D.C.M., M.R. C.S., L.R.C.P.	1666.64	
sociate Professor	H.C. Jamieson	2500.00	
monstrators	Dr. Hall	250.00	
"	Dr. Scott	250.00	
"	Dr. C.W. Hurlburt	500.00	
"	Dr. J.S. Bell	500.00	
"	Dr. H.B. Logie	500.00	
	Dr. D.B. Leitch	500.00	6666.64
inical Surgery			
ofessor	M.H. Newburn M.D., C.M. L.L.D.	5000.00	
aesthetist	J.A. Blezard	120.00	
monstrator	Dr. H.H. Hepburn	500.00	
"	Dr. L.C.Conn	500.00	
	Dr. A. Blais	500.00	
	Dr. W.A. Wilson	500.00	
	Dr. G.C. Gray	500.00	
	Dr. Munroe	500.00	8120.00
thematics			
fessor	E.W. Sheldon M.A. Phd.	4250.00	
"	S.D. Killam Phd. (8 mos)	2500.00	
sociate Professor	J.W. Campbell M.A. Phd.	3000.00	
cturer	T.H. Milne M.A. (8 mos)	1400.00	
tructor	Mrs. E.T. Mitchell5 ")	750.00	
"	Miss J. Ballantyne	100.00	
	F. Young	150.00	12150.00
story			
ofessor	A.L. Burt M.A.	3750.00	
st. Professor	M.H..Long B.A.	2800.00	
cturer	Rev. T.C. Allwork B.A. (8 mos)	600.00	
"	C.S.Burgess A.R.I.B.A. (3 mos)	600.00	7750.00

...ctator

F.J. Pollinsbee M.C.S.
J.H.C.P.

...ssor

1. Kearney M.D.
4.A. Macpherson M.D.
3. Crooke M.D.
L.A. Bayburn M.D.C.M.
V. Mueller M.D.

...ssor

A.W. Downe M.A., M.D.,Dse.
B.S. Eady M.D.
M.C. Smith M.D.
Chas. Croft
H.D. Kane (4 mos.)
M.C.Murray (3 ")
I.S. Hall M.A., M.B.

...ssor

E.B. Collip M.A., Phd.
J.W. Scott M.T. Cm.(4 mos
G. Boorman (4 mos.)
A.A. Long
E.W. Smilie
J.P.K. Keglish

...ssor

M.I. Pope M.D.C.M., M.R.
C.S., L.R.C.P.

...ssor

H.O. Jamieson
Dr. M.D.
Dr. Scott
Dr. C.M. Burt
Dr. J.S. Fe
Dr. S.B. Vogle
Dr. P.D. Dalton

...ssor

M.D. Newburn M.D., C.M.
J.D.
J.A. Aleksand
Dr. E.E. Hepburn
Dr. L.O.Gunn
Dr. L. Blais
Dr. A. Wilson
Dr. G.G. Gray
Dr. Munroe

...ssor

E.W. Sheldon M.A. Phd.
S.D. Killam Mhd. (8 mos)
J.W. Scrimgeoll M.A. Phd.
T.H. Milne M.A. (8 mos)
Mrs. E.P. Mitchell "
Miss I. Williamson
R. Young

...ssor

A.L. Burt M.A.
M.H. Long B.A.
Rev. T.C. Allen B.A.
(8 mos)
C.B.Burgess A.M.I.C.E.
(2 mos)

Economics				
Professor	D.A. McGibbon M.A. Phd.		4000.00	
Lecturer	A.F. McGound B.A. Cl.		2400.00	
Leader	Miss D. Miller		125.00	6525.00
Chemistry				
Professor	A.F.L. Lehmann B.S.A. Phd.		4500.00	
Asst. Professor	O.J. Walker M.A. Phd.		2800.00	
" "	O.C. Bridgeman M.A.		2500.00	
" "	R.B. Sandin M.A.		1400.00	
Lecturer	N. Stover		1000.00	
"	Harold G. Oddy		533.32	
Demonstrator	J.J. Thompson		696.00	
"	B.J. Mair		600.00	
"	W. MacDonald		249.98	
"	John Martin		200.00	
"	W. Line		416.60	
"	W. Jewitt		66.60	
"	H.O. Tomlinson		150.00	
"	R.L. Kutz		150.00	
"	".A. Lang		150.00	
"	W.D. Burgess		150.00	
"	W.L. MacDonald		49.98	
"	T.H. Mather		150.00	
"	M.V. Drake		448.39	
Glassblower	G. Ensell		218.40	
Storekeeper	L.C. Watlings		1200.00	17629.27
Botany and Biology				
Professor	F.J. Lewis F.R.S.E.		4250.00	
Lecturer	E.H. Moss M.A.		2100.00	
Lab. Assistant	A. Campbell		366.62	
Demonstrator	Miss Dowding		589.38	
"	S. Pearson		75.00	
"	G.A. Ward		150.00	7530.95
Zoology				
Associate Professor	Wm. Rowan M.Sc.		3000.00	
Demonstrator	W.J. Harkness		1700.00	
Assistant	F. Brown	(8 mos.)	640.00	
"	R. Lister	(4 ")	320.00	5660.00
Geology				
Professor	J.A. Allan MSc.Phd.		4250.00	
Lecturer	P.S. Warren B.A., A.R.C.S.	(9 mos.)	1800.00	
"	L. Rutherford	(4 ")	666.64	
Lab. Assistant	J. Sanderson	(4½ ")	291.45	
" "	R.H. Pegrum	(7 ")	209.83	
Stenographer	Mrs. N. Stover	(5 ")	200.00	
"	Miss Fulmer	(1 ")	24.68	
"	Miss Fife	(4 ")	120.00	7562.60
Mining Engineering				
Professor	N.C. Pitcher M.Sc.		4500.00	
Associate Professor	A.E. Cameron M.Sc.		3000.00	
Lab. Assistant	W. Holmes		1440.00	
" "	N.H. Atkinson	(4½ mos.)	376.00	9316.00

Civil Engineering			
Professor	R.S.L. Wilson B.Sc.	4000.00	
Lecturer	H.R. Webb B.Sc.	1800.00	
Lab. Assistant	A. McPherson	82.50	5882.50
Mechanical Engineering			
Professor	C.A. Robb BSc. M.S.	4000.00	4000.00
Applied Science			
Associate Professor	I.F. Morrison B.Sc.	3500.00	3500.00
Physics			
Professor	R.W. Boyle M.A. Phd.	4500.00	
Associate Professor	S. Smith M.A. B.Sc.	3000.00	
Lecturer	R.J. Lang M.A. (4 mos)	833.32	
"	L.H. Nichols	2033.28	
Assistant	F.J. Lehmann	1000.00	
"	H. B. Clow	1380.00	
Lab. Assistant	C. Reid	112.00	
" "	E.S. McKittrick	190.00	
" "	H.B. Lebourveau	72.00	
" "	G.B. Taylor (4½ mos)	467.50	
" "	A.A. Fraser	104.50	
" "	J.W. Porteous	120.00	
Glassblower	G. Ensell (12 Mos)	1041.60	
Machinist	A.W. McFarlane	1563.30	16417.50
Physics (Electrical Engineering			
Associate Professor	H.J. McLeod M.Sc.	3000.00	
Lecturer	S.C. Morgan B.Sc.	2500.00	5500.00
Physical Education			
Physical Instructors		1530.00	
Caretaker and Trainer		1257.50	2787.50
Pharmacy and Materia Medica			
Associate Professor	F.A.S. Dunn Ph.C.M.P.S.	3000.00	
Lecturer	A.W. Matthews	1800.00	
Assistants	E.L. Mitchell	80.00	
"	M.F. Halliday	60.00	4940.00

Civil Engineering			
Professor	J.S.L. Wilson	B.Sc.	4000.00
Lecturer	H.R. Webb	B.Sc.	1800.00
Lab. Assistant	A. McPherson		82.50
			5882.50
Mechanical Engineering			
Professor	O.A. Howe	B.Sc. M.E.	4000.00
Applied Science			
Associate Professor	I.F. Morrison	B.Sc.	3500.00
			7500.00
Physics			
Professor	H.W. Boyle	M.A. Phd.	4800.00
Associate Professor	S. Smith	M.A. B.Sc.	3000.00
Lecturer	R.J. Lang	M.A. (4 mos)	833.32
"	D.K. Nicholls		2082.28
Assistant	P.J. Lehmann		1000.00
"	E. B. Glow		1380.00
Lab. Assistant	O. Reid		118.00
" "	E.B. McKittrick		190.00
" "	H.B. Leboutveau		72.00
" "	G.B. Taylor	(4½ mos)	467.50
" "	A.A. Fraser		104.50
" "	J.W. Fortescue		130.00
Janeflower	O. Russell	(12 mos)	1041.60
Secretary	A.W. McFarlane		1867.50
			16417.50
Physics (Electrical Engineering)			
Associate Professor	H.J. McLeod	M.Sc.	3000.00
Lecturer	S.C. Morgan	B.Sc.	2500.00
			5500.00
Physical Education			
Physical Instructors			1380.00
Greenkeeper and Trainer			1787.50
			3167.50
Forestry and Materials Mechanics			
Associate Professor	P.A.S. Dunn	Ph.D. M.F.S.	3000.00
Lecturer	E.W. Matthews		1800.00
Assistants	E.L. Mitchell		80.00
"	M.F. Halliday		60.00
			4940.00

Household Economics

Lecturer	Miss M.Patrick, B.A.	2400.00	
"	Miss E. Deadman B.C.	1900.00	
Asst. "	Miss G. Gladstone	1066.64	5366.64

Night Watchman

C. McColeman	856.50	
Asst., Wm. Wilken	206.25	1062.75

Transfer Driver

H. Dean	1380.00	1380.00

Law

Lecturer	J. A.Weir,B.A.,L.L.B.	3000.00	
	V.E.Kleven,B.A.L.L.B.	2600.00	
Library Assts.	L. J. Shepard	25.00	
Special Lectures	L. W. Brockington	390.00	
	B. B. Bolton	200.00	
	W. H. Sellar	360.00	
	A. Hannah	100.00	
	J. B. Barrow	100.00	
	A. W. Sinclair	80.00	
	W. Dixon-Craig	350.00	
	George Steer	350.00	
	E. T. Bishop	90.00	
	A. E. Popple	90.00	
	V. E. Kleven	70.00	
			8105.00

$ 287,041.74

S U M M A R Y

DECEMBER 31st 1923.

AGRICULTURE		Expenditure	Revenue
General.			
Salaries			
Dean, E.A. Howes, B.S.A.	4250.00		
Stenographer, Mrs.Hooper 3 mos.	75.00	4325.00	
Expenditure			
Auto	426.02		
Travelling	514.15		
Postage	31.00		
Stationery and Printing	34.31		
Telephones and Telegrams	18.51		
Sundries	16.75	1040.74	5365.74
Field Husbandry			
Salaries			
Professor G.H. Cutler, B.S.A.	4250.00		
" R. Newton, MSc. B.S.A.	3500.00		
Asst. " J.R. Fryer M.A.	2900.00		
Stenographer Miss C. Lamont 8 mos.	720.00		
Stenographer Mrs. Bedford 4 "	320.00	11690.00	
Expenditure			
Travel	274.25		
Auto	261.50		
Supplies and Repairs	851.96		
Printing and Stationery	243.57		
Postage, Telephone, Telegrams	315.52		
Photo	65.70		
Water and Light	51.62		
Fodder	768.80		
Seeds	81.56		
Alberta Crop Improvement	2738.07		
Sundries	86.65		
Wages	12007.14		
	17726.34		
Inventory Jan. 1st, 1923.	408.00		
	18134.34		
Inventory Dec. 31st, 1923.	368.21	17766.13	29456.13
By Revenue - Alberta Crop Improvement			3427.31
- Field Husbandry			621.55
			4048.86

SUMMARY

SUMMARY

DECEMBER 31st 1923.

		EXPENDITURE	REVENUE
ANIMAL HUSBANDRY			
Salaries			
Professor J.P. Sackville B.S.A.	4000.00		
Asst. " R.D. Sinclair B.S.A.	2650.00		
" " J.E. Bowstead M.Sc.	2650.00		
Farm Mgr. W.J. Thompson	1800.00		
Stenographer Miss D. May	990.00		
" relief Mrs. Bedford	80.00	12170.00	
Expenditure			
Wages	21012.50		
Bankage	405.70		
Straw and Hay	4375.50		
Oil Cake	1921.73		
Greenfeed	1186.92		
Oats, Barley, Rye	10575.36		
Bran, Shorts, Meal	1717.57		
Sundries	1131.23		
Auto	271.06		
Travel	326.41		
Postage	60.00		
Veterinary	855.38		
Telephones and Telegrams	318.86		
Repairs	1329.11		
Light and Water	466.05		
Supplies	1576.80		
Photo	89.65		
Stationery and Printing	177.85		
Sundries	501.69		
	48299.37		
Inventory Jan. 1, 1923	2598.00		
	50897.37		
Less Inventory Dec. 31,1923	5012.74	45884.63	$58054.63
By Revenue			$8753.87
SOILS			
Salaries			
Prof. F.A. Wyatt M.Sc.B.S.A.Phd.	4000.00		
Associate Prof. J.D. Newton B.S.A.	3000.00		
Assistants A.S. Ward	1740.00		
J.L. Doughty 4 mos.	540.00		
T.H. Mather 4 "	440.00		
Stenographer Mrs. Hooper 3 "	49.98	9769.98	
Travel	137.93		
Supplies	885.16		
Telephones and Telegrams	11.01		
Repairs	134.10		
Sundries	9.50		
	1177.70		
Inventory Jan. 1st, 1923.	614.86		
	1792.56		
Inventory Dec. 31,1923.	472.50	1320.06	$11090.04

S U M M A R Y

S U M M A R Y

DECEMBER 31st, 1923.

			Expenditure	Revenue
AGRICULTURAL ENGINEERING				
Salaries				
Professor J. MacGregor Smith	B.S.A.		4000.00	
Stenographer	Mrs. L.E. Hooper	3 mcs.	49.98	
Assistants	S.C. Robinson	3 "	105.87	
	W. Smith	3 "	84.00	4239.85
Supplies			726.52	
Auto and Travel			99.99	
Sundries			91.65	
			918.15	
Inventory Jan. 1, 1923			20.67	
			939.83	
Inventory Dec.31,1923			25.20	913.63 $5153.48
HORTICULTURE				
Lecturer, G. Harcourt	B.S.A.		3000.00	
Stenographer	Mrs.L.E. Hooper	8 mos.	25.02	3025.02
Supplies and Repairs			256.96	
Wages			3364.62	
Heat			55.00	
Seeds			.75	
Sundries			120.96	
Postage			3.00	
			3801.29	
Inventory Jan. 1, 1923.			2626.35	
			6427.64	
Inventory Dec.31, 1923.			2413.35	4014.29 $7039.31
By Revenue				$494.90

SUMMARY

For the Year Ended Dec. 31, 1923.

	Expenditure	Revenue
AGRICULTURAL MAINTENANCE		
Salaries		
Professor J. Macgregor Smith B.S.A.	4000.00	
Stenographer Mrs. L.E. Hooper 3 mos.	49.98	
Assistants S.O. Robinson 3 "	100.87	
W. Smith 3 "	84.00	4234.85
Supplies	726.52	
Auto and Travel	99.99	
Sundries	91.55	
	918.06	
Inventory Jan. 1, 1923	20.87	
	939.83	
Inventory Dec.31,1923	86.20	853.63 $5188.48
POULTRY CULTURE		
Lecturer, G. Harcourt B.S.A.	3000.00	
Stenographer Mrs.L.E. Hooper 3 mos.	96.02	3096.02
Supplies and Repairs	886.96	
Wages	3864.62	
Coal	83.00	
Seeds	.78	
Sundries	120.96	
Carriage	8.00	
	4501.32	
Inventory Jan. 1, 1923.	1666.36	
	6167.68	
Inventory Dec.31, 1923.	6014.29	153.39 $7096.81
		$4294.30

S U M M A R Y

Dairying		Expenditure	Rev
Stenographer, Mrs. L.E.Hooper (3 mos.)	40.02	40.02	
Supplies	1037.55		
Light	63.22		
Phone	5.95		
Ice	40.90		
Repairs	18.80		
	1166.42		
Less Inventory Dec. 1, 1923	99.10	1067.32	1,107.54
By Revenue			937.6

Entomology			
Professor, E.H.Strickland,M.Sc.	3500.00	3500.00	
Assistant,H. A. Gray	100.00		
Supplies	387.95		
Sundry	41.61	529.56	4,029.56

SUMMARY

Stenographer, Mrs. I.D.Hooper (3 mos.)	40.02	40.02
Supplies	1037.85	
Light	65.45	
Phone	8.95	
Ice	40.90	
Repairs	18.80	
	1171.45	
Less Inventory Dec. 1, 1929	99.10	1072.25 1,307.62
By Revenue		
Profession. E.V. Strickland, M.Ds.	3500.00	3800.30
Assistant, H. A. Gray	300.00	
Supplies	387.55	
Sundry	41.67	829.56 4,029.86

S U M M A R Y

December 31st, 1923

Physical Education

Rink	222.74	
Athletic Grounds	24.60	
Gymnasium	129.64	
Tennis	204.09	
Sundry	84.20	$665.27
By Revenue		$425.00

Pharmacy

Supplies	958.60	
Telephone & Telegrams	20.14	
Travel	30.00	
Repairs	70.00	
Sundries	72.17	1050.91
By Revenue		$234.37

BUDGET

December 31st, 1923

Physical Education

Rink		222.74
Athletic Ground		24.60
Gymnasium		129.04
Tennis		304.09
Sundry	84.20	658.37
By Revenue		845.30

Pharmacy

Supplies		556.60
Telephone & Telegrams		20.14
Travel		30.00
Repairs		70.00
Sundries	73.17	1080.91
By Revenue		1654.37

SUMMARY

DECEMBER 31st, 1923.

EXTENSION DEPARTMENT.		Expenditure	Revenue.	
General				
Director, A. E. Ottewell, M.A.	3400.00			
Asst. " E. A. Corbett, M. A.	2850.00			
Lecturer H. Patton	2400.00			
Stenographer, Miss. A. Nelson	1260.00			
Stenographer Miss Malchow 4 mos	320.00			
Stenographer " McElevery 8 mos.	640.00			
	10870.00	$10870.00		
Travel and Auto	2174.77			
Agricultural Publications	1466.18			
Printing & Stationery	601.33			
Postage	152.00			
Phones and Telegrams	73.81			
Sundries	105.62			
Week for Farm Young People	90.05			
	4663.76			
Inventory Jan. 1, 1923	2348.75			
	7012.51			
Less Inventory Dec. 31, 1923	1551.50			
	5461.01	5461.01		
		16331.01		
Travelling Libraries.				
Librarian, Miss J.F. Montgomery B.A.	1900.00			
Asst." Miss E.M. Chiverton	900.00			
Stenographer " O.E. McDonnell	1020.00			
Stenographer R.W. Moss 4 mos	240.00			
Stenographer Mrs. F.M. Masson 1 mo.	75.00			
Stenographer Miss Hamilton 2 "	63.50			
Stenographer " B. Montgomery 1 "	70.00	4268.50		
Postage	117.11			
Stationery and Printing	418.92			
Periodicals & replacements	3480.44			
Supplies	103.74			
Telegrams & Telephones	5.58	4125.79	8394.29	
By Revenue				260.62

SUMMARY

EXTENSION DEPARTMENT.

General

Director, A. E. Ottowell, M.A.	$4200.00	
Asst. " E. A. Corbett, M. A.	2850.00	
Lecturer H. Petton	2400.00	
Stenographer, Miss A. Nelson	1260.00	
Stenographer Miss Malohow 4 mos	320.00	
Stenographer " McNaverty 8 mos.	640.00	
	10870.00	10870.00
Travel and Auto	2174.77	
Agricultural Publications	1466.18	
Printing & Stationery	601.58	
Postage	182.00	
Phones and Telegrams	73.81	
Sundries	106.62	
Week for Farm Young People	90.05	
	4695.76	
Inventory Jan. 1, 1923	2549.75	
	7015.51	
Less Inventory Dec.31, 1923	1351.50	
	5663.01	5663.01

Travelling Libraries.

Librarian, Miss J.F.Montgomery B.A.	1200.00	
Asst." Miss E.M.Oliverton	900.00	
Stenographer " O.E.McDonnell	1080.00	
Stenographer H.W.Moss 4 mos	240.00	
Stenographer Mrs. P.M.Meeson 3 mo.	75.00	
Stenographer Miss Hamilton 2 "	65.60	
Stenographer " B.Montgomery 1 "	70.00	4365.60
Postage	117.11	
Stationery and Printing	428.95	
Periodicals & replacements	2480.44	
Supplies	108.74	
Telegrams & Telephones	5.58	4125.72 8354.59

By Revenue 260.62

S U M M A R Y

DECEMBER 31st, 1923.

					Expenditure	Revenue	
XTENSION DEPARTMENT							
isual Instruction							
alaries							
upervisor,	H.P.	Brown			$2200.00		
lerk,	Miss	J. Cook			940.00		
tenographer	"	Shaw	3	mos.	225.00		
"	"	Bell	9	"	630.00		
"	"	Martin	6	"	445.20		
"	"	Kilgour	6	"	460.00	4900.20	
rading					4941.16		
hoto					823.87		
lides					1883.95		
ilms					1517.31		
eplacements					191.28		
undry					152.55		
					9510.12		
nventory Jan. 1, 1923.					15549.80		
					25059.92		
nventory, Dec. 31, 1923.					19058.54	6001.38	
						10901.58	10901.58
y Revenue							7563.98

SUMMARY

DEPARTMENT Sept. 1923.

Expenditure Revenue

DIVISION DEPARTMENT

Rural Instruction

Salaries

Supervisor, H.P. Brown				2200.00	
Clerk, Miss T. Cook				940.00	
Stenographer " Shaw		3 mos.		225.00	
" " Bell		9	"	630.00	
" " Martin		6	"	446.80	
" " Kilgour		6	"	460.00	4900.80
				4941.16	
				823.87	
				1888.95	
				1517.81	
				741.28	
				155.85	
				9810.12	
Inventory Jan. 1, 1923.				15649.80	
				25459.92	
Inventory Dec. 31, 1923.				15058.84	6001.68
				10901.68	10901.68

Revenue 1565.92

S U M M A R Y.

December 31st, 1923.

Residences.

Salaries.

Superintendant, Miss E.J.Russell	975.00	
Light	3664.26	
Water	1263.98	
Phones	412.15	
Fuel	40.41	
Supplies	1297.57	
Laundry	1702.80	
Repairs and Sundry Charges	1284.51	
Wages, Maids	5384.39	
Wages, Janitors	6964.00	
Wages, Night Watchman,R.Lister	180.00	23,169.07
By Revenue		40,830.46

Dining Room.

Salaries.

Superintendant, Miss E.J.Russell	975.00	
Dietician, Miss D.Curry (2 mos.)	200.00	
Miss Eager (3½ mos.)	323.33	
Wages, Maids	5191.61	
Wages, Chef	1970.50	
Wages, Assistants	5405.66	
Provisions	47604.83	
Laundry	1678.16	
Light & Power	1500.05	
Phones	56.55	
Repairs	1311.51	
Utensils	2695.80	
Gas	600.00	
Sundry	123.85	
	69636.85	
Inventory, Jan.1, 1923	3820.83	
	73457.68	
Less Inventory, Dec. 31, 1923	3497.11	69,960.57
By Revenue		80,170.80

SUMMARY.

December 31st, 1928.

Residences.

Salaries.

Superintendent, Miss E.J.Russell	975.00
Light	3664.26
Water	1268.90
Phones	412.15
Fuel	40.41
Supplies	1297.87
Laundry	1702.80
Repairs and Sundry Charges	1284.81
Wages, Meids	[illegible]
Wages, Janitors	[illegible]
Wages, Night watchmen.R.Lister	5954.00
	1890.00 22.189.07

By Revenue

Dining Room.

Salaries.

Superintendent, Miss E.J.Russell	975.00
Dietician, Miss D.Curry (2 mos.)	200.00
Miss Sager (2½ mos.)	225.35
Wages, Meids	8197.61
Wages, Chef	1970.80
Wages, Assistants	5405.65
Provisions	4760.85
Laundry	1678.16
Light & Power	1800.05
Phones	56.65
Repairs	1811.81
Utensils	2895.80
Gas	600.00
Sundry	153.85
	6956.85
Inventory, Jan.1, 1928	8820.85
	13776.70
Less Inventory, Dec. 31, 1928	8497.11 69.960.07

By Revenue 80.170.80

S U M M A R Y

DECEMBER 31st, 1923.

		Expenditure	Revenue
POWER PLANT			
R.R. Couper	1015.15		
Wages-Engineers	10060.00		
Firemen	8228.60		
Supplies	1587.92		
Coal	13709.41		
Oil	349.52		
Repairs	2456.08		
Light	3540.99		
Telegrams and Telephones	132.25		
Sundries	68.75		
	41148.67		
Inventory Jan. 1, 1923.	1268.63		
	42417.30		
Less Inventory Dec. 31, 1923.	987.40	$41429.90	
By Revenue			$19455.01
DENTISTRY			
Instructor, H.A. Gilchrist D.D.S.	1695.00		
" H.E. Bulyea D.M.D.	1800.00		
Supplies	61.83	$3556.83	
GAS PLANT			
Coal	534.73		
Oil	2370.67		
Light	30.00		
Supplies	66.87		
Repairs	83.78		
Wages	2504.15		
	5590.20		
Inventory Jan. 1, 1923.	440.50		
	6030.70		
Less Inventory Dec. 31, 1923.	295.65	$5735.05	
By Revenue			$737.00

S U M M A R Y

DECEMBER 31st, 1928.

	Expenditure	Returns
OWER PLANT		
.A. Cooper	1015.15	
eges-Engineers	1000.00	
Trioms	8228.60	
pplies	1587.32	
oal	1270.41	
il	349.82	
epairs	2486.08	
ight	3640.99	
elegrams and Telephones	182.25	
undries	68.75	
	$21143.87	
nventory Jan. 1, 1928.	1588.68	
	$22731.55	
ess Inventory Dec. 31, 1928.	987.40	$21744.15
y Revenue		$19685.01
ENTISTRY		
nstructor, H.A. Gilchrist D.D.S.	1878.00	
" H.E. Bulyea D.M.D.	1800.00	
pplies	61.83	$3539.83
AS PLANT		
oal	554.73	
il	2370.67	
ight	30.00	
pplies	66.87	
epairs	88.78	
ages	2804.75	
	5915.80	
nventory Jan. 1, 1928.	490.80	
	6406.70	
ess Inventory Dec. 31, 1928.	498.66	$5738.05
y Revenue		$737.00

SUMMARY.

Laboratories.

Physics		1,375.91	
Anatomy		$ 1,031.91	
Botany		728.26	
Bio-chemistry		2,563.26	
Civil Engineering		406.21	
Chemistry		3,395.78	
Clinical Medicine		89.70	
Dentistry		8.93	
Drawing		58.74	
Electrical Engineering		594.65	
Geology		1,504.58	
History		9.43	
Mining Engineering		1,144.53	
Mathmatics		62.38	
Moderns		151.08	
Physiology		2,368.37	
Mechanical Engineering		33.31	
Philosophy		253.31	
Pathology		7.15	
Zoology		1,027.32	
Household Economics	639.81		
Inventory Jan.1,1923	137.82		
	777.63		
Less " Dec.31,1923	112.50	665.13	$ 17,479.94
By Revenue.....			$ 998.21

Insurance.

Unexpired, Dec. 31, 1922	7,192.53	
Premium Paid	8,836.77	
	16,029.30	
Less unexpired Dec. 31,1923	9,810.25	$ 6,219.05

Travelling Expenses.

Board of Governors	246.90	
Senate	51.85	
President	537.28	
Sundry	455.65	$ 1,291.68

Bank Interest and Discount.

Disbursements	2,536.28	$ 2,536.28
By Revenue.....		$ 125.47

Upkeep of Motors.

Gasoline	508.07	
Repairs, Licenses, etc.	870.41	$ 1,378.48

SUMMARY.

Laboratories.

Physics		1,376.91
Anatomy		$ 1,031.91
Botany		728.26
Bio-chemistry		2,663.26
Civil Engineering		406.21
Chemistry		3,395.78
Clinical Medicine		89.70
Dentistry		8.93
Drawing		58.74
Electrical Engineering		594.65
Geology		1,504.53
History		9.43
Mining Engineering		1,144.53
Mathematics		62.38
Modern		151.08
Physiology		2,368.57
Mechanical Engineering		33.31
Philosophy		253.31
Pathology		7.15
Zoology		1,027.32
Household Economics	639.81	
Inventory Jan.1,1923	137.82	
	777.63	
Loss " Dec.31,1923	112.50	665.13 $ 17,479.94
By Revenue.....		$ 998.21

Insurance.

Unexpired, Dec. 31, 1922		7,192.63
Premium Paid		8,836.77
		16,029.30
Loss unexpired Dec. 31,1923	9,810.25	$ 6,219.05

Travelling Expenses.

Board of Governors	246.90
Senate	81.85
President	537.28
Sundry	455.65 $ 1,291.68

Bank Interest and Discount.

Disbursements	2,936.28 $ 2,936.28
By Revenue.....	$ 125.47

Upkeep of Motors.

Gasoline		508.07
Repairs, Licenses, etc.	870.41	$ 1,378.48

S U M M A R Y

SCHOLARSHIPS & MEDALS

Alberta Pharmaceutical Assen.	80.00	
Students Loan Fund	200.00	
Heustis Memorial	25.00	
Wells Prize	50.00	
University Matriculation	25.00	
Stuchbury Prize	25.00	
College Physicians & Surgeons	150.00	
Returned Soldiers Scholarship	156.00	
Sir James Aiken	125.00	
P. Burns Prize	150.00	
Ash Bros. Medals	210.00	
		1196.00

By Revenue:

Alberta Pharmaceutical Assen.	80.00	
Heustis Memorial	25.00	
Wells Prize French	50.00	
Stuchbury Prize	25.00	
Miss Alford re		
Returned Soldiers Scholarship	156.00	
Sir James Aiken	125.00	
College Physicians & Surgeons	150.00	
P. Burns Prize	150.00	
Mr. J. H. Lines	70.00	
Hon. Chief Justice Harvey	35.00	
Mr. John A. McDougall	35.00	
Mr. G. A. Thibault	35.00	
Miss Deadman	35.00	
		9716

SUMMARY

S U M M A R Y

DECEMBER 31st, 1923.

			Expenditure	Rev.
CONTINGENCIES				
Postage		702.70		
Telegrams		188.76		
Telephones		1604.65		
Printing and Stationery		2834.44		
Seals		285.95		
Salaries, Summer School		1900.00		
Extra Assistance		36.40		
Typewriters and Adding Machines		516.14		
Imprest Fund		2000.00		
Sundries		658.42	10727.46	
By Revenue				2000.00
BOOKSTORE AND POST OFFICE				
Salaries				
Manager, C.W. Mosford		1500.00		
Assistant A.G. Mosford		900.00		
Extra " Miss Herrald	6 mos.	366.43		
" " S. MacMillan		70.00		
" " L. Tennant		20.25		
" " Miss Killans	6 "	467.50	3324.18	
Expenses		74.82		
Merchandise		20745.35		
		20820.17		
Inventory Jan. 1, 1923.		17890.65		
		38710.82		
Inventory Dec. 31, 1923.		17746.38	20964.44	24288.62
By Revenue				25137.23

S U M M A R Y

SUMMARY

DECEMBER 31st, 1923.

		Expenditure	Revenue
INTING DEPARTMENT			
nager, Jas. Bill	2400.00		
wer	211.82		
rchandise	14600.40		
es	13353.20		
penses	663.97		
nt	5476.99		
lephone	2.00		
	36708.38		
ventory Jan. 1, 1923.	7580.04		
	44288.42		
ventory Dec. 31,1923.	12219.10	$32069.32	
Revenue			38025.18
ULTY HOUSES			
se #1 Dr. Tory	147.09		
#2 C.E. Race	64.00		
#3 W.A.R. Kerr	144.69		
#4 A.F.L. Lehmann	93.90		
#5 A. West	88.76		
#6 J.A. Allan	156.54		
#7 E.W. Sheldon	172.64		
#8 E.A. Howes	73.07		
#9 C.S. Burgess	103.57		
#10 C.A. Robb	50.97		
#11 S.S. Smith	16.65		
#12 D.E. Cameron	54.23		
Steam Line	67.52	1213.63	
evenue			6060.00

SUMMARY

	Expenditure	Revenue
ING DEPARTMENT		
er, Tea. Bill	2400.00	
	211.82	
andles	14600.40	
	1358.20	
ase	662.37	
	6472.99	
ome	3.00	
	35708.58	
tory Jan. 1, 1923.	7980.04	
	44288.42	
tory Dec. 31, 1923.	12819.10	32068.32
venue		32068.32
T HOUSE		
1 Dr. Tory	147.09	
2 C.E. Bage	64.00	
3 W.A.R. Kerr	144.65	
4 A.F.L. Lehmann	93.90	
5 A. West	88.76	
6 J.A. Allan	186.64	
7 R.B. Shelton	179.64	
18 E.A. Howes	73.07	
9 C.D. Burgess	108.87	
10 C.A. Robb	80.97	
11 E.S. Smith	18.65	
12 D.E. Cameron	84.58	
Steam Line	87.88	1218.65
venue		6060.00

S U M M A R Y

Building Repairs.

Salary, Supt, of Property J.A.Langlands	1700.00	
Arts Building	1001.96	
Double Laboratory & Power Plant	196.46	
North Engineering Building	644.51	
Pembina Residence	957.79	
Athabasca Residence	1841.29	
Assiniboia Residence	1327.83	
South Engineering Building	397.51	
Medical & Chemistry Buildings	743.78	8,831.13
Grounds	5253.85	
Less Inventory Dec.31, 1923	1417.90	3,835.95
		12,667.08
By Revenue		2,496.65

Main Teaching Buildings, Maintenance.

Wages	9710.50	
Supplies	1045.38	
Laundry	202.20	
Light	8921.68	
Water	2104.81	
Repairs	713.40	
	22697.97	
Inventory Jan. 1, 1923	505.10	
	23203.07	
Less Inventory Dec. 31, 1923	238.10	22,964.97
By Revenue		291.36

Printing and Advertising.

Calendars and Pamphlets	1848.50	
Press Bulletin	855.36	
Postage	300.00	3,003.86

Library

Magazines, etc.	1976.17	
Repairs	39.75	
Postage	41.12	
Sundry	13.93	
		2,070.97

SUMMARY

Industrial Laboratory

Prov. Analyst, J.A.Nolan, M.Sc.	870.00	
Lab.Assistant,A.G.Scroggie,B.Sc.	1800.00	5,550.00
Postage	19.50	
Supplies	1813.75	
Towels	42.50	
Phones and Telegrams	84.40	
Ice	29.05	
Repairs	419.95	
Sundry	88.75	2,103.70
		7,653.70
By Revenue		1,664.59

Provincial Laboratory

From Industrial Laboratory		7,653.70
Director,A.G.Rankin,G.M.G.,M.D.G.M., D.P.H., G.R.G.P.,M.R.G.S.	4800.00	
Prov.Serologist,J.J.Dwyer,B.A.,M.D., G.M.,	4800.00	
Prov.Bacteriologist,R.M.Shaw,B.A., M.D., G.M.,D.P.H.,	3800.00	
Lab.Assistant,Dr.H.Vargo, M.D.G.M. (7 mos.)	1900.00	
Miss A. Watson	1440.00	
" L. Smith (7 mos.)	665.00	
" G. Tyner (7 mos.)	805.35	
" H.R.McLean (2 mos.)	21.75	
Lecturer, Dr. Harris, 1928-29 session	180.00	
Lab.Assistant,Miss J.McFarlane,8 mos.	480.00	
Clerk, Miss A Newton	1800.00	
Stenographer, Miss M. Paul	960.00	
Lab. Boy, M. Southen	900.00	
James Thompson	3.85	20,153.05
Auto Expenses	804.05	
Postage	224.00	
Phones and Telegrams	140.69	
Travel	312.80	
Supplies	2867.51	
Janitor	1128.00	
Ice	168.30	
Towels	876.60	
Repairs	138.12	
Stationery	638.05	
Clinic	80.00	
Sundry	49.34	6,373.64 26,686.69
		834,140.39

SUMMARY

Teachers' Courses.

Director, D.S. MacKenzie		3300.00	
Instructor, Miss J.M. McBratney,	7 mos.	1050.00	
" Norrington, B.A.	8 "	1200.00	
Mrs. E.T. Mitchell, B.A.	7 "	1050.00	
Stenographer, Miss H.S. Edwards, B.A.		1140.00	7,740.00
Postage		88.00	
Stationery		193.75	
Sundries		37.00	318.75
			8,058.75

Works Department

Superintendent, F.R. Hiron	2700.00	
Electrician, H. Miller	2160.00	4,860.00
Light and Power	70.82	
Wages	16596.24	
Merchandise	11125.48	
Phones	104.40	
Sundries	415.71	
	28312.65	
Inventory, Jan. 1, 1923	12296.95	
	40609.60	
Less Inventory, Dec. 31, 1923	11556.26	29,053.34
		33,913.34
		33,454.90

By Revenue

Debenture Interest.

4½%	on 2,000,000	90000.00	
6 %	" 100,000	6000.00	
5½%	" 300,000	16500.00	
6½%	" 450,000	29250.00	
6 %	" 750,000	45000.00	
6 %	" 400,000	24000.00	
5 %	" 150,000	7500.00	
		218250.00	
New York Exchange		3395.81	221,645.81
			221,493.99

SUMMARY

Treasurer's Current.

reasurer, D.S. McKenzie	3600.00	
ectuntor, Miss J.M. McPherson, V mce.	1050.00	
" Norrington,F.A. & "	1200.00	
Mrs. H.F. Mumbell, F.A.T "	1080.00	
enogrepher, Miss M.S. Edwards, T.A.	1140.00	7,760.00
ostage	88.00	
tationery	195.75	
ardries	87.20	370.95
		8,065.75

Works Department

perintendent, F.E. Kirton	2700.00	
lectrician, H. Millet	2160.00	4,860.00
ight and Power	70.85	
ages	1859.24	
repairs	1113.40	
ones	104.40	
undries	415.71	
	3563.60	
ventory, Jan. 1, 1925	1239.36	
	4802.96	
ous Inventory, Dec. 31, 1925	1738.36	29,063.24
		33,923.24

By Revenue

Dominion Interest.

on $ 3,000,000	90000.00	
" 100,000	6000.00	
" 300,000	18000.00	
" 450,000	27000.00	
" 750,000	45000.00	
" 400,000	24000.00	
" 150,000	9000.00	
	219000.00	
ew York Exchange	3056.81	222,056.81

INVENTORIES - CURRENT

DECEMBER 31st 1923.

223	Field Husbandry	368.21
22c	Animal Husbandry	5012.74
22d	Soils	472.50
22e	Agricultural Engineering	25.20
22f	Horticulture	2413.35
22g	Dairy	99.10
31	Extension	
a	General	1551.50
c	Trading	19058.54
33	Dining Room	3497.11
34	Power Plant	987.40
36	Gas Plant	295.65
37	Main Teaching Buildings	238.10
43	Household Economics	112.50
49	Bookstore	17746.38
50	Printing Department	12219.10
56	Works Department	11556.26
	Electric 1709.06	
	words 8978.00	
	machine 1369.20	
52	Grounds	1417.90
	Night Watchman, Clock System	157.84
	Same as 1922	$77229.58

INVENTORIES - CURRENT

DECEMBER 31st 1952.

Field Husbandry	386.81
Animal Husbandry	5012.74
Soils	472.80
Agricultural Engineering	25.80
Horticulture	6419.85
Dairy	93.10
Extension	
General	1581.80
Trading	13088.84
Dining Room	6437.11
Power Plant	987.40
Gas Plant	296.85
Main Teaching Buildings	838.10
Homecraft Economics	178.80
Bookstore	17746.38
Printing Department	12818.10
Works Department	17856.26
Grounds	1417.90
Night Watchmen, Clock System	187.64
	94252.38

ACCOUNTS PAYABLE

DECEMBER 31, 1923

Alberta Linseed Oil Co. Ltd.		945.73
Alberta Dairy Supplies Ltd.		13.29
Arctic Ice Co. Ltd.		32.35
City of Edmonton - Light & Power Dept.		461.14
The Century Magazine		5.00
J. M. Dent & Sons Ltd.		7.27
Dominion Motors Ltd.		96.15
General Biological Supply Hse.		73.09
Gillespie Grain Co. Ltd.		1,889.80
Ingram & Bell		324.56
Longmans, Green & Co.		15.01
P. Manning Lumber Co. Ltd.		2.70
Macdonald-Cooper Ltd.		37.39
National Drug & Chemical Co. of Can. Ltd.		12.99
Thos. Nelson & Sons Ltd.		2.51
North-West Mill & Feed Co. Ltd.		385.00
J. H. Remick & Co.		1.63
Ryerson Press		146.80
Simpkin,Marshall, Hamilton, Kent & Co.		40.00
A. H. Thomas Co. Ltd.		6.68
The Topley Co. Ltd.		5.53
West Disinfecting Co.		140.60
Imperial Bank Drafts:		
The British Drug Houses, London	£8-2-0	
Edward Stanford Ltd. London	3-1-6	
Religious Tract Society "	6-2-2	
Methuem & Co. Ltd. "	8-14-2	
Approximately		130.00
Imperial Bank Drafts:		
Baker & Taylor Co. New York		.67
Bausch & Lomb Optical Co.Roch. N.Y.		43.80
Central Scientific, Chicago		15.54
Denver Fire Clay Co., Denver		7.15
Eimer & Amend, New York		5.58
General Biological Supply, Chicago		213.53
Arthur H. Thomas Co. Philadelphia,Pa.		578.05
Wards Natural Science Establishment Rochester, New York		46.30
City of Edmonton - Telephone		250.00
		$ 5,935.82

ACCOUNTS PAYABLE

DECEMBER 31, 1952

Alberta Linseed Oil Co. Ltd.	946.72
Alberta Dairy Supplies Ltd.	18.29
Arctic Ice Co. Ltd.	32.35
City of Edmonton - Light & Power Dept.	461.14
The Century Magazine	6.00
J. K. Dent & Sons Ltd.	7.27
Dominion Motors Ltd.	96.18
General Biological Supply Hse.	75.09
Gillespie Grain Co. Ltd.	1,889.80
Ingram & Bell	324.66
Longmans, Green & Co.	18.01
P. Manning Lumber Co. Ltd.	2.70
Macdonald-Cooper Ltd.	39.39
National Drug & Chemical Co. of Can. Ltd.	18.99
Thos. Nelson & Sons Ltd.	5.81
North-West Mill & Feed Co. Ltd.	388.00
J. H. Renwick & Co.	1.65
Ryerson Press	146.80
Simpkin,Marshall, Hamilton, Kent & Co.	40.00
A. R. Thomas Co. Ltd.	6.68
The Topley Co. Ltd.	5.65
West Plastering Co.	140.50
Imperial Bank Drafts:	
The British Drug Houses, London 28-3-0	
Edward Stanford Ltd. London 3-1-6	
Religious Tract Society " 6-3-3	
Methuen & Co. Ltd. " 8-14-3	
Approximately	130.00
Imperial Bank Drafts:	
Baker & Taylor Co. New York	.67
Bausch & Lomb Optical Co.Roch. N.Y.	43.80
Central Scientific, Chicago	18.64
Denver Fire Clay Co., Denver	7.15
Elmer & Amend, New York	6.58
General Biological Supply, Chicago	213.68
Arthur H. Thomas Co. Philadelphia,Pa.	578.05
Wards Natural Science Establishment	
Rochester, New York	45.50
City of Edmonton - Telephone	280.00

$ 8,936.88

ACCOUNTS PAYABLE.

UNIVERSITY HOSPITAL.

DECEMBER 31, 1923.

Alberta Government Telephones	2.60
Archibald, A.	37.90
American Shoe Store Ltd.	6.50
Arctic Ice Co.Ltd.	74.00
Bakewell's Coffee & Tea Co.Ltd.	38.00
Brock, Stanley, Ltd.	142.27
Brock, W. R. Co.Ltd.	836.71
Blowey Henry Co.Ltd.	683.00
Beare, S. B. Ltd.	178.69
Burns, P. & Co.Ltd.	939.11
Burroughs Adding Machine of Can.Ltd.	2.75
Brown Fruit Co.Ltd.	13.24
Beaver Soap Co.Ltd.	144.21
Canadian General Electric Co.Ltd.	114.55
City of Edmonton, Electric Light & Power	92.25
Cassidy's Limited	105.83
Cash, J. & J.	17.00
Clark, W. H. & Co.Ltd.	130.46
Chandler & Fisher Ltd.	37.32
Crown Coal Co.Ltd.	2,255.55
Campbell, Wilson & Horne Ltd.	58.92
Davies J. A.	1.40
Dornan, J. C.	54.08
Equipment & Supplies Ltd.	23.20
Egg & Poultry Marketing Service	561.51
Edmonton City Dairy Ltd.	1,224.60
Edmonton Produce Co.	13.86
French Shoe Shop	174.75
Frosst, Chas. E. & Co.	89.18
Graham & Reid	921.96
General Supplies Ltd.	104.04
Government Telegraph Service	1.00
Gainers Limited	23.40
Great West Saddlery Co.Ltd	.88
Hardisty Drug Co.Ltd.	7.85
Hartz, J. F. Co.Ltd.	54.45
Hayward Lumber Co.Ltd.	6.00
Hepburns Limited	7.20
Hudsons Bay Co.Ltd.	17.80
Ingram & Bell	329.91
Imperial Oil Co.Ltd.	18.31
Ideal Bakery Ltd.	220.33
Jackson Bros, Foundry & Machine shop	9.25
Jackson Bros, Jewellers	2.50
Kennedy, E. N. Co.	9.20
Lake of the Wood Milling Co.Ltd.	15.65
Metals Limited	37.18
Mewburn, L. T. Co.Ltd.	293.97
Mosby Medical Book & Pub. Co.	1.08

ACCOUNTS PAYABLE.

UNIVERSITY HOSPITAL.

DECEMBER 31, 1928.

Alberta Government Telephones	8.69
Archibald, A.	27.90
American Shoe Store Ltd.	6.80
Arctic Ice Co.Ltd.	74.00
Bakewell's Coffee & Tea Co.Ltd.	38.00
Brock, Stanley. Ltd.	142.27
Brock, W. H. Co.Ltd.	336.71
Blowey Henry Co.Ltd.	683.00
Beare, G. H. Ltd.	178.39
Burns, P. & Co.Ltd.	359.71
Burroughs Adding Machine of Can.Ltd.	2.75
Brown Fruit Co.Ltd.	18.24
Beaver Soap Co.Ltd.	144.21
Canadian General Electric Co.Ltd.	114.85
City of Edmonton, Electric Light & Power	98.25
Connelly's Limited.	105.85
Cash, J. & J.	17.00
Clark, W. H. & Co.Ltd.	130.44
Chandler & Fisher Ltd.	37.85
Crown Coal Co.Ltd.	2,256.55
Campbell, Wilson & Horne Ltd.	58.38
Davies J. A.	1.40
Dorman, J. C.	54.05
Equipment & Supplies Ltd.	28.20
Egg & Poultry Marketing Service	851.31
Edmonton City Dairy Ltd.	1,284.60
Edmonton Produce Co.	18.85
French Shoe Shop	174.75
Frost, Chas. S. & Co.	89.18
Graham & Reid	321.36
General Supplies Ltd.	104.04
Government Telegraph Service	1.00
Gaines Limited	33.40
Great West Laundry Co.Ltd	.38
Hartley Drug Co.Ltd.	7.85
Harris, J. . Co.Ltd.	84.45
Hayward Lumber Co.Ltd.	6.00
Hepburns Limited	7.80
Hudsons Bay Co.Ltd.	17.80
Ingram & Bell	839.91
Imperial Oil Co.Ltd.	18.83
Ideal Bakery Ltd.	220.38
Jackson Bros, Foundry & Machine shop	3.25
Jackson Bros, Jewellers	2.80
Kennedy, R. H. Co.	3.80
Lake of the Wood Milling Co.Ltd.	18.65
Metals Limited	87.18
Mowbray, L. T. Co.Ltd.	298.37
Mosby Medical Book & Pub. Co.	1.08

Accounts Payable - continued.

University Hospital.

December 31, 1924

Misericordia Hospital	486.25
McLaughlin, J. J. Ltd.	158.52
McClary Manufacturing Co.	79.25
McKay-Turner Co.Ltd.	.60
Macdonald-Cooper Co.Ltd.	269.14
National Chemical Co. of Canada Ltd.	102.73
Northwestern Utilities Ltd.	250.00
Otis Fensom Elevator Co.Ltd.	409.88
Office Specialty Mfg. Co.Ltd.	22.83
Parke Davis Sales Corporation	12.75
Plunkett, Savage & Sutherland Ltd.	60.60
Pyramid Oil & Refining Co.Ltd.	126.27
Quality Tire Repair Co.Ltd.	4.50
Royal Crown Soap Ltd	67.10
Royal Fruit Co.Ltd.	210.95
Simmons Limited	457.19
Stephens, G. F. & Co.Ltd.	30.52
Stevens, Alberta Companies Ltd.	307.50
Swift Canadian Co.Ltd.	806.74
Service Drug Stores Ltd.	2.80
Snowdon, C. C.	59.36
Thornton, Perkins & Co.Ltd.	2.50
United Typewriter Co.Ltd.	16.10
U-File M Binder Mfg. Co.Ltd.	14.01
Victor X-Ray Corporation of Can Ltd.	695.78
Woodland Dairy Ltd.	693.34
Wood, Sherry, Collison & Field	3.00
Western Steel Products Ltd.	184.00
Western Grocers Ltd.	126.51
Down Bros. Ltd.	835.00
Canadian Red Cross Society	309.75
Revillon Wholesale Ltd.	2,613.65
	$19,548.32

Accounts Payable - continued.

University Hospital.

December 31, 1954

Mastercraft Hospital	486.83
McMaster,W. J. Ltd.	198.52
McQuarry Manufacturing Co.	79.23
McKay-Turner Co.Ltd.	.80
Macdonald-Cooper Co.Ltd.	863.74
Matthews Chemical Co. of Canada Ltd.	1208.75
Northwestern Utilities Ltd.	810.00
Otis Fensom Elevator Co.Ltd.	408.98
Ottico Specialty Mfg. Co.Ltd.	88.58
Parke Davis Halon Corporation	12.75
Plunkett, Savage & Sutherland Ltd.	80.60
Pyramid Oil & Refining Co.Ltd.	186.87
Quality Tire Repair Co.Ltd.	6.80
Royal Crown Soap Ltd	67.10
Royal Trust Co.Ltd.	810.75
Simmons Limited	487.18
Stephens, G. F. & Co.Ltd.	30.82
Stovens, Alberta Company Ltd.	807.80
Swift Canadian Co.Ltd.	806.74
Service Drug Stores Ltd.	8.00
Snowdon, C. G.	89.36
Thornton, Perkins & Co.Ltd.	.80
United Typewriter Co.Ltd.	16.10
U-Fill-M Binder Mfg. Co.Ltd.	14.21
Vivier X-Ray Corporation of Can Ltd.	895.76
Woodland Dairy Ltd.	698.84
Wood, Gundy, Dobbins & Field	8.00
Western Steel Products Ltd.	184.08
Western Grocers Ltd.	136.81
Dom Rubb. Ltd.	886.00
Canadian Red Cross Society	809.70
Revillon Wrleases Ltd.	8,616.35

$19,568.82

ACCOUNTS RECEIVABLE

DEBITS

DECEMBER 31st, 1923.

Alexandra School	15.00
Alex Taylor School	1.00
Archer, Dr. A.E.	7.00
Alberta Medical Assn.	47.30
Alumni Assn.	758.45
Alta. Straw & Stone Products	15.00
Austin, C.J.	6.50
Atkinson, Miss	10.00
Alta. Social Service League	27.00
Ash Temple Co. Ltd.,	298.07
Bosomworth, Rev. H.	21.15
Barnecut, F.J.	1.00
Brown, Mr. H.P.	14.78
Blais, I.N.	2.50
Brand, Dr.	20.00
Budinski, N.	103.99
Bowstead, Mr.	16.11
Briscoe, W.H.	12.80
Bellos. W.	12.00
Bateman, Mrs. M.	2.50
Bate, Rev. J.	5.05
Bell, Leo W.	2.00
Butcher, Mr.	6.75
Class '25	5.75
Cook, Miss J.	4.67
Clark, Mr.	1.00
Corbett, E.A.	22.83
Church, J.A.H.	10.00
Curothers, A.F.	5.00
Collier, J.J.	7.50
Cameron, D.A.	10.00
Cromb, Rev. H.T.	60.60
Crawford, Mr.	1.50
Capital Feed Co.	7.50
Cameron, D.E.	13.66
Clyde Local U.F.A.	3.50
City of Calgary	10.00
Canadian Coal Co.	40.00
Cork, Miss M.	27.00
Crux, Dr.	4.75
Dennison & Collins	67.67
Down, H.H.	10.00
Downs, G.F.	15.00
Dominion Government Tax Account	863.83
Drummond, L.E.	25.00
Dominion Government A.R.C.	173.04
Derochers, J.P.	34.50
Dunfield, Mr.	1.00
Dunn, Prof.	5.25
Dewey, Mr.	.75
Edmonton Federation Comm. Leagues	43.00
Elsdon, Rev. J.F.	81.20
Eddy, Dr. N.B.	13.44
Edwards, Capt.	2.00

ACCOUNTS RECEIVABLE

DEBITS

DECEMBER 31st, 1923.

Alexandra School	15.00
Alex Taylor School	1.00
Atcher, Dr. A.M.	7.00
Alberta Medical Assn.	47.50
Alumni Assn.	756.45
Alta. Stone & Stone Products	15.00
Austin, C.J.	6.50
Attridge, Miss	10.00
Alta. Social Service League	27.00
A&M Temple Co. Ltd.,	298.07
Bonnyworth, Rev. H.	21.15
Bertrand, P.J.	1.00
Brown, Mr. H.P.	14.75
Black, I.B.	5.50
Brand, Dr.	20.00
Bradwell, H.	108.99
Bowstead, Mr.	16.11
Bridges, W.H.	15.50
Bellos, W.	15.00
Bateman, Mrs. M.	3.50
Beste, Rev. J.	5.05
Bell, Leo W.	8.00
Butcher, Mr.	6.75
Class '25	5.75
Cook,Miss J.	4.67
Clark, Mr.	1.00
Canfield,H.A.	25.85
Canrad, J.A.E.	15.00
Carothers, A.F.	5.00
Cullen, J.J.	7.50
Cameron, D.A.	10.00
Crumb, Rev. H.T.	60.60
Cromwford, Mr.	1.50
Capital Food Co.	7.50
Cameron, D.M.	15.55
Clyde Local U.F.A.	3.50
City of Calgary	10.00
Canadian Coal Co.	40.00
Cork, Miss M.	27.00
Cruz, Dr.	4.75
Dennison & Collins	67.67
Down, H.H.	10.50
Downs, S.F.	15.00
Domigion Government Tax Account	885.55
Drummond, L.E.	25.00
Dominion Government A.F.G.	173.04
Dercoberg, J.P.	34.50
Dunkiaid, Mr.	1.00
Dunn, Prof.	5.25
Dewey, Mr.	.75
Edmonton Federation Comm. Leagues	45.00
Eladon, Rev. J.F.	81.50
Eady, Dr. W.H.	12.44
Edwards, Capt.	5.00

Accounts Receivable - Debits - 2.

Ferris, R.B.	50.00
French Club	72.67
Fraser, A.R.	10.00
Farrel, Rev. A.C.	8.00
Fletcher, Dr.	8.00
Freeman, Mr. C.L.	10.00
Fraser, Stuart	2.73
Folinsbee, Dr. J. F.	4.18
Gateway	916.43
Grisdale, Mr.	3.60
Gillies, Jno.	5.00
Gibson, Dr. G.M.	5.00
Gow, W.D.	5.00
Gould, A.J.	15.00
Galt Hospital	10.45
Hogg, W.J.	1.25
Hall, G.M.	10.00
Hudson Bay Co.	70.00
Henderson, B.M. Co.	272.90
Hewton, Miss A.	.43
Houlton, Sidney Co.	10.00
Hilton, M.J.	9.00
Hughson, Rev.	.50
Holeton, Geo. R.	11.30
House League Basket Ball	6.50
Harkness, Mr.	2.00
Historical Club	1.00
Heath, D.C. & Co.	.58
Industrial Laboratory	245.50
Irvine, J.A.	20.00
Institute of C.A.	1.10
Imperial Bank	5.00
Insurance Account	1916.86
James, W.E.	85.10
Jackson, Roy	40.40
Jamieson, Dr.	107.42
Judah, N.H.	10.00
Jamieson, F.G.	19.55
Junior Dance	.30
James, E.W.	2.00
Johnston, A.C.	6.40
Jeffer, C.A.	2.00
Jones, Mr. E.	20.00
Jackson, J.H.	1.00
Jones, J.T.	1.00
Kanes, E.W.S.	4.70
Key, J.N.	5.00
Klevin, Mr.	2.50
Lawrie, Rev. J.R.	1.00
Law, Frank	1.94
Longman, O.S.	1.45
Law Society	19.25
Lees, Rev. W.M.	1.00
Lâsie, James	4.70
Live Stock Commissioner	50.00
Law Commerce Rugby Club	3.15
Misener, Miss J.	7.26

Perrin, H.B.	80.00
Preemb Club	72.67
Praser, A.R.	10.00
Parrel, Rev. A.G.	8.00
Pletcher, Dr.	2.00
Freeman, Mr. G.L.	10.00
Fraser, Stuart	3.75
Pollinabee, Dr. J. P.	4.12
Gateway	916.42
Gridgely, Mr.	3.80
Gillies, Jno.	8.00
Gibson, Dr. G.M.	5.00
Gow, W.D.	8.00
Gould, A.J.	15.00
Galt Hospital	10.46
Hoge, W.J.	1.25
Hall, G.M.	10.00
Hudson Bay Co.	70.00
Henderson, P.M. Co.	272.30
Hanton, Miss A.	.45
Hamilton, Sidney Co.	10.00
Pilson, M.J.	9.00
Hughson, Rev.	.80
Holoton, Geo. R.	11.30
Home League Basket Ball	6.80
Harpheee, Mr.	2.00
Highcroft Club	1.00
Heath, J.C. & Co.	.85
Industrial Laboratory	245.80
Irvine, J.A.	80.00
Institute of C.A.	1.10
Imperial Bank	8.00
Insurance Account	1916.80
Jones, W.H.	84.10
Jackson, Roy	40.40
Jamieson, Dr.	107.45
Judah, M.H.	10.00
Jamieson, P.G.	19.85
Junior Dance	.80
James, M.E.	3.00
Johnston, A.C.	6.40
Jeffer, O.A.	8.00
Jones, Mr. R.	80.00
Jackson, J.H.	1.00
Jones, J.T.	1.00
Kanee, M.E.S.	4.75
Key, J.B.	8.00
Klevin, Mr.	8.00
Lawrie, Rev. J.H.	1.00
Law, Frank	1.34
Longman, O.S.	1.46
Law Society	19.85
Leon, Rev. W.M.	1.00
Lebis, James	4.70
Live Stock Commissioner	80.00
Law Commerce Rugby Club	2.10
Misener, Miss J.	7.25

Meyerman, H.	3.99
Mayfair Golf Club	2.66
Marsh, Rev. W.C.	.10
Marker, Mr.	3.00
Martin, H.	5.00
Military Hospital	13.50
Medical Club	13.04
Mining & Geological Society	2.50
Mitchell, A.	9.80
Murray, J.J. Ltd.	100.47
Martin, H.F.	2.50
Matheson, A.S.	105.00
Mury, S.	.75
Mulloy, Dr. J.K.	18.00
Metals Ltd.	7.50
Montgomery, Mr. A.	3.00
McCarter, G.S.	10.00
McLagan, Rev. Jas. A.C.	24.37
McBeath, J.P.	5.05
McNeill, Rev. H.C.	119.00
McDonald, R.C.	149.25
McIntyre, Mr. J.W.	3.50
McAllister, Jack	4.75
Newson, W.V.	20.00
Nixon, Rev. Hugh	22.20
Naylor, Rev. I.J.	2.00
North West Lumber Co.Ltd.	25.00
Nelson, Mr.	10.00
Nobbs, Percy	20.00
Oliver Public School	.75
Peter, Frank	11.55
Perry, B.L.	26.75
Patricia Pharmacal Co.	106.74
Public Works	10.00
Ponton, G.P.	1.98
Prov. Government Mines Branch	110.00
Pike, Rev. W.H.	53.00
Pinkston, L.W.	10.50
Polar Aerated Water Works Ltd.	5.00
Prov. Govt. Dept. of Agriculture	298.05
Parkdale Comm. League	4.30
Perry, Frank	40.00
Pulos, Jim	2.50
Prov. Library	.40
Ptarmigan Lumber Co.	10.00
Pitcher, E.C.	73.42
Purchase, Rev. F.E.	33.70
Pate, John	19.05
Petrie, D.A.	1.50
Pike A. & Co. Ltd.	2.40
Ross, W.	1.45
Rehwinkle, Rev. A.	8.65
Ramsey James Ltd.	113.60
Robertson Church	3.60
Ridley, R.W.	4.80
Ried, Mrs.	130.50
Reid, K.F.	13.00
Rappel, John	2.50

Meyerman, H.	5.99
Mayfair Golf Club	8.68
Marsh, Rev. W.C.	.10
Murphy, Mr.	8.00
Martin, R.	8.00
Military Hospital	18.80
Medical Club	15.04
Mining & Geological Society	8.80
Mitchell, A.	9.80
Murray, J.J. Ltd.	100.47
Martin, H.P.	8.80
Matheson, A.S.	108.00
Mary, S.	.75
Malloy, Dr. J.K.	18.00
Metals Ltd.	7.60
Montgomery, Mr. A.	8.80
McCarter, G.S.	10.00
McLagan, Rev. Jas. A.C.	84.87
McDenth, J.P.	8.08
McNeill, Rev. H.C.	119.00
McDonald, R.C.	149.68
McIntyre, Mr. J.W.	8.80
Mcalister, Jack	6.75
Pearson, W.V.	80.00
Mixon, Rev. Hugh	84.80
Naylor, Rev. I.J.	8.00
North West Lumber Co.Ltd.	86.00
Nelson, Mr.	10.00
Nobbs, Percy	80.00
Office Public School	.75
Peter, Frank	11.68
Perry, B.L.	84.75
Northern Pharmacal Co.	108.74
Public Works	10.00
Ponton, G.P.	1.80
Prov. Government Mines Branch	112.00
Pike, Rev. W.H.	88.00
Pinkston, J.W.	10.80
Polar Aerated Water Works Ltd.	8.00
Prov. Govt. Dept. of Agriculture	298.08
Parkdale Comm. League	4.80
Petty, Frank	40.00
Pulos, Jim	8.80
Prov. Library	.40
Pearmigan Lumber Co.	10.00
Pitcher, W.C.	73.42
Purchase, Rev. J.H.	88.70
Pate, John	19.08
Petrie, D.A.	1.80
Pike A. & Co. Ltd.	8.40
Ross, W.	1.48
Robwinkle, Rev. A.	6.88
Massey James Ltd.	112.80
Robertson Church	8.60
Ridley, R.W.	4.80
Reid, Mrs.	120.80
Weld, W.F.	18.00
Rupp, John	8.80

Ross, James A.	4.00
Richard, Rev. A.D.	1.50
Reith, Miss	1.00
Ruddy, G.T.	4.00
Rea, J.	10.00
Robins Bishop	1.25
Rae, Rev.	1.00
Royal Alexandra Hospital	59.95
Royal Curling Club	.60
Roberts, H.	1.00
Simmondon, Rev. R.A. Court	9.65
Sheldon, Dr.	8.50
Students Union General	29.74
Students Union Women's Initiation	11.05
Students Union Rugby Club	.95
Students Union Dramatic Society	62.69
Students Union Debating Club	.45
Students Union Rink Account	673.03
Sims, Major	5.50
Smith, H.	7.95
Sullivan, Major	10.00
S.C.M. Mens	3.00
Spence, F.M.	1.00
Science Assn.	7.55
Stitt, Rev. M.H.	1.00
Sevell Co.	5.00
Slater, Rev.	46.30
Schuldt, E.W.	1.00
Sisson, Mr.	5.00
Simpson, K.	1.00
Saul, G.M.	.05
Sanderson, Mr.	6.05
Studer, A.	2.50
Stansell, S.S.	28.10
Soldiers Civil Re-Establishment	10.00
Swarg, H.O.	10.00
Simpkin Marshall Co.	.17
St. Matthews Lutheran Church	31.50
Sophomore Dance	17.76
Stewart, Rev. R.E.	3.00
Stacpoole, Dr. H.B.	4.18
Tuxis, S.	42.80
Thompson, John	5.60
Turner, Rev. John	4.30
Tibbits, M.	7.00
Thompson, E.P.	.65
Toronto Type Foundry	45.00
U. of A. Bookstore	1252.63
Undergrad Dance	19.00
Underwood, E. Miss	1.00
Vailancourt, A.	10.00
Vallet, M.	3.72
Van Ark, Mr. W.	1.00
Warner, W.C.	7.01
White Star Coal Co.	10.00
Westminster College	1027.10
Wood, Rev.	7.80

Jones, James A.	4.00
Hickard, Rev. A.D.	1.80
Smith, Miss	1.00
Rudy, O.T.	4.00
Lee, J.	10.00
Robins Bishop	1.25
Rae, Rev.	1.00
Royal Alexandra Hospital	69.35
Royal Curling Club	.60
Roberts, R.	1.00
Simmondon, Rev. R.A. Court	9.65
Sheldon, Dr.	8.50
Students Union General	29.74
Students Union Women's Initiation	11.05
Students Union Rugby Club	.35
Students Union Dramatic Society	68.65
Students Union Debating Club	.45
Students Union Rink Account	675.05
Stipe, Major	8.50
Smith, R.	7.75
Williams, Major	10.00
S.C.M. Mens	5.00
Spence, J.M.	1.00
Solomos Asen.	7.55
Stitt, Rev. R.H.	1.00
Revell Co.	5.00
Slater, Rev.	46.50
Schmidt, R.W.	1.00
Gleason, Mr.	5.00
Simpson, R.	1.00
Sani, O.M.	.05
Sanderson, Mr.	6.05
Studer, A.	5.50
Stansell, S.S.	53.10
Soldiers Civil Re-Establishment	10.00
Swarg, H.O.	10.00
Stuphin Marshall Co.	.17
St. Matthews Lutheran Church	21.50
Sophomore Dance	17.75
Stewart, Rev. R.R.	3.00
Stapposle, Pr. H.B.	4.15
Tuzle, S.	45.60
Thompson, John	5.60
Turner, Rev. John	4.30
Tibbits, M.	7.00
Thompson, R.P.	.65
Toronto Type Foundry	45.00
U. of A. Bookstore	1855.65
Underwood Dance	15.00
Underwood, M. Miss	1.00
Vellenoovet, A.	10.00
Vallet, M.	3.75
Van Ark, Mr. W.	1.00
Watmer, R.C.	7.01
White Star Coal Co.	10.00
Westminster College	1087.10
Wood, Rev.	7.50

ACCOUNTS RECEIVABLE DEBITS (Continued)

Wilson, Prof. R.S.L.	.75
Williamson, Dr.	10.00
Wees, Mr.	3.20
Women's University Club	26.60
Watson, Geo.	.25
Walker Mine	10.00
Westmount Comm. League	24.45
Woods, P. J. Hwde.	19.95
Woodward, Rev. J. T.	.05
Walley, M.	1.00
Warren, E. W.	18.00
Warren, M.	3.00
Year Book	8.70
Y.M.C.A. Lethbridge	.70
Young, Dr.	10.45
	$12,559.29

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ACCOUNTS RECEIVABLE DEBITS (Continued)

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Watson, Geo.	.25
Walker Mine	10.00
Westmount Comm. League	24.45
Woods, P. J. Hwde.	19.95
Woodward, Rev. J. F.	.05
Walley, M.	1.00
Warren, E. W.	18.00
Warren, M.	3.00
Year Book	8.70
Y.M.C.A. Lethbridge	.70
Young, Dr.	10.45
	$12,559.29

12490.67 -

12559.29

12559.29 a/c Rob
2768.03 a/c Rob
4818.40 Jas.
31.50 Jas.
20458.22

12490.67
2768.03
4818.40
31.50
20089.60
431.38
20458.22

ACCOUNTS PAYABLE (Continued)

Watson, Geo.	.25
Walker Mine	10.00
Westmount Comm. League	24.45
Woods, P. J. Wade.	19.95
Woodward, Rev. J. P.	.05
Wally, M.	1.00
Warren, R. V.	18.00
Warren, M.	3.00
Year Book	8.70
Y.M.C.A., Lethbridge	.70
Young, Dr.	10.45

$12,859.59

ACCOUNTS RECEIVABLE.

CREDITS. December 31st, 1923.

Alberta College,	3.00
Adjustment Account,	10.23
Miss H. Ball,	7.25
Class '26,	9.96
Canadian Pacific Railway,	12.00
Cameron, A.E.	6.15
Collip, Dr.	40.66
Caution Money,	149.01
Class '23,	3.00
Crane Ltd.	4.00
Dominion Government, N. R. C.	96.61
Department of Agriculture,	10.00
Dodd, Miss F.E.	1.00
Faculty Club,	115.00
Fulmer, Miss M.	.30
Gibson, John G.	.50
Green, Thos. H. Rev.	6.00
House Committee,	3.25
Horte, O.	8.15
Highlands Methodist Church,	1.00
Krammer, F.	10.95
Moshier, Dr.	3.96
Moore, O.B.	9.89
McKee, Mr.	.57
McGibbon D.A.	1.31
McDougall Church,	3.50
McLennan, Miss I.K.	1.00
Prov. Government - Dept. of Health,	20.88
Pharmacy Club,	.75
Students' Union Athletic Society,	10.00
Students' Union Sophmore Class,	1.00
Southen, E.	.20
Sutherland, Dr.	6.00
Wauneita Society,	2.17
Walker, Dr. O.J.	1.55
Young, H.S.	2.50
	$563.30

ACCOUNTS RECEIVABLE.

CREDITS.

December 31st, 1928.

Alberta College,	8.00
Adjustment Account,	10.23
Miss M. Bell,	7.25
Class '26,	9.96
Canadian Pacific Railway,	12.00
Cameron, A.E.	6.15
Collip, Dr.	40.65
Caution Money,	149.01
Class '25,	3.00
Crane Ltd.	4.00
Dominion Government, M. R. C.	96.81
Department of Agriculture,	10.00
Dodd, Miss W.E.	1.00
Faculty Club,	115.00
Fulmer, Miss M.	.30
Gibson, John G.	.30
Green, Thos. H. Rev.	6.00
House Committee,	3.25
Horte, O.	8.15
Highlands Methodist Church,	1.00
Kramer, F.	10.95
Moehler, Dr.	3.95
Moore, O.E.	9.80
McKee, Mr.	.87
McGibbon D.A.	1.31
McDougall Church,	3.80
McLennan, Miss I.K.	1.00
Prov. Government - Dept. of Health,	20.26
Pharmacy Club,	.75
Students' Union Athletic Society,	10.00
Students' Union Sophmore Class,	1.00
Southen, E.	.20
Sutherland, Dr.	6.00
Wauneita Society,	3.17
Walker, Dr. O.J.	1.35
Young, H.S.	2.30

$363.30

ACCOUNTS RECEIVABLE - ROOM & BOARD.
DEBITS.

		December 31, 1923.
Asplund,	Chas	$ 10.00
Baker,	W. E.	83.30
Becker,	C.	26.00
Budd,	W. S.	25.00
Bryan,	W. C.	60.00
Baker,	R. M.	.05
Becker,	Ruth	40.00
Brammer,	J. H.	38.00
Bright,	A. H.	12.00
Cameron,	R. A.	33.75
Currie,	Donald,	40.00
Cairns,	James	6.75
Clarry,	T.	15.93
Davis,	E. H.	2.00
Dunkley,	T.	120.00
De Mille,	W. B.	40.00
Dyde,	H. A.	152.00
Dawson,	C. S.	36.10
Donaldson,	Geo.	27.10
English,	J.	10.00
Krause,	M. E.	80.00
Levy,	M. R.	40.00
Le Blance Yonne		5.40
Law,	Frank	5.40
Moore,	R. C.	44.00
	Forward	952.78

ACCOUNTS RECEIVABLE - ROOM & BOARD.
INDIAN. (Cont'd)

		Forward.	$ 952.78
Horden,	V. I.		9.20
Manning,	A. H.		14.00
Moss,	R. W.		123.65
Miller,	J.		160.00
Mitchell,	Bessie		80.00
Marshall,	Alice B.		12.15
Murphy,	F. J.		152.00
Morrison,	J. A.		80.00
McLeod,	M. E.		30.00
McKay,	W.		40.00
McLean,	F. R.		8.10
McGregor,	Leone		4.00
McArthur,	K. D.		80.00
McMillan,	W. A.		.15
McRae,	D.		100.75
McNeil,			30.80
Nicholson,	Mary		14.95
Olson,	O. C.		40.00
Pearson,	J. G.		.15
Park,	W. F.		173.00
Pyper,	Rob.		80.00
Pierson,	Edna I.		38.00
Pawluk,	P.		40.00
Perkins,	M. G.		12.00
Roger,	F.		8.00
Robertson,	B. H.		8.45
Robinson,	S. G.		1.00

ACCOUNTS RECEIVABLE - BOOK A YEARS.
BALANCE (Cont'd)

Norman,	V. I.	9.50
Newsome,	A. K.	34.00
Neese,	R. E.	125.65
Miller,	Z.	166.00
McIntosh,	Jessie	80.00
Mercer,	Alice B.	12.12
Murphy,	T. J.	185.00
Mercier,	C. A.	80.00
Nelson,	M. E.	30.00
McKay,	I.	40.00
Nelson,	T. M.	8.10
McGregor,	Irene	4.00
McArthur,	K. D.	60.00
McMillan,	V. A.	.12
Moore,	D.	100.75
McNeil,		30.00
Mahoney,	Mary	14.00
Olsen,	O. G.	40.00
Pearson,	J. O.	.12
Park,	W. P.	140.00
Pyne,	Rob.	50.00
Pearson,	Mona I.	28.00
Penfold,	P.	40.00
Perkins,	M. G.	12.00
Roger,	J.	6.00
Robertson,	R. E.	6.48
Robinson,	E. S.	1.00

ACCOUNTS RECEIVABLE - ROOM & BOARD.
DEBITS. (Cont'd).

	Forward.	$ 2,263.13
Robertson,	H. B.	18.00
Sinclair,	S. S.	39.85
Stauffer,	M. L.	60.00
Smith,	A. W.	40.00
Salter,	F. M.	1.00
Seulleg,	D. C.	29.20
Smith,	C. R.	26.45
Thurston,	W.	10.00
Taylor,	V. B.	60.00
Taylor,	J. J.	38.00
Tomlinson,		3.30
Timmins,	B.	52.40
Whitman,	D.	40.00
Wees,	W.	40.00
Winters,	H. F.	10.80
Walters,	C. T.	1.90
Williams,	W. P.	2.00
Wells,	Jack	12.00
		$ 2,768.03

Robertson,	M. M.	15.00
Stanslaw,	E. S.	29.85
Stauffer,	M. I.	60.00
Smith,	A. V.	69.00
Salter,	T. M.	1.00
Wallace,	D. G.	29.10
Smith,	G. H.	28.45
Thurston,	W.	10.00
Taylor,	V. M.	60.00
Taylor,	T. J.	26.00
Tomlinson,		5.50
Tibbins,	R.	29.40
Van Dusen,	D.	49.05
Owen,	E.	40.00
Vickers,	H. M.	30.80
Walters,	G. T.	1.80
Walling,	W. P.	5.00
Wells,	Amos	11.00
		$ 2,703.05

ACCOUNTS RECHIVABLE - ROOM & BOARD.
CREDITS.

Atkinson,	Grace	$ 13.38
Burgess,	C. S.	55.25
Bank,	B. W.	12.00
Baker,	R. I.	160.00
Brown,	R. J.	160.00
Gray,	D. R.	12.00
Gudmundson,	A. E.	12.00
Greenberg,	C. C.	40.00
Halliday,	F.	20.00
Haw,	O. V.	160.00
Johnston,	C.	12.00
Keir,	Katherine	40.00
Laidlaw,	W. G. C.	12.00
McBrine,	A. W.	40.00
McIntyre,	J. W.	12.00
McLennan,	Jean	.85
McDonald,	W. L.	.20
McPall,	J. R.	40.00
Patton,	H. S.	14.10
Scroggie,	A. G.	31.00
Stock,	S. W.	1.00
Simmons,	Reg.	12.00
Splavic,	Eric	12.00
Thompson,	R. K.	160.00
Thompson,	John	160.00
Uchida,	M.	40.00
	Forward.	$ 1,231.78

CHARGES.

Adkinson,	Grace	$ 12.50
Burgess,	G. D.	50.00
Bush,	B. T.	12.00
Carey,	R. I.	100.00
Brown,	M. J.	100.00
Gray,	D. E.	12.00
Gadsden,	A. E.	12.00
Greenbaum,	S. C.	40.00
Hallday,	I.	20.00
Hay,	O. T.	100.00
Johnston,	C.	12.00
Katz,	Katherine	40.00
Laidlaw,	M. C. C.	12.00
Lemkine,	A. E.	40.00
McIntyre,	J. E.	12.00
McLennan,	Jean	.00
McDonald,	W. L.	.00
McNeil,	J. H.	40.00
Patten,	K. E.	24.00
Carnegie,	A. G.	12.00
Stack,	E. M.	1.00
Stamone,	Meg.	12.00
Sylvain,	Marie	12.00
Thompson,	R. M.	100.00
Thompson,	John	100.00
Vonkide,	E.	40.00

Forward. $ 1,321.50

ACCOUNTS RECEIVABLE - BOARD & ROOM. CHILDREN. (Cont'd).

		Forward.	$ 1,231.78
Williams,	H. L.		12.00
Wains,	F. D.		40.00
Wells,	John		11.85
Wright,	E. K.		12.00
Woods,	K.		.10
Young,	H. B.		40.00
			$ 1,347.73

SCHEDULE OF INSURANCE

December 31st, 1923

Property	Amount	Rate	Premium
n the brick, stone and concrete building known s Athabasca Hall, Dining Hall, Boiler House nd Kitchen, Nos. 250-262, W.C.F.U.A. Plan.....	$ 276,000.00	1.36	3,753.60
n Contents, while contained therein.....	35,000.00	1.60	560.00
n the brick, stone and concrete building known s Assiniboia Hall, Nos. 200-216, W.C.F.U.A.Plan	143,000.00	1.09	1,558.70
n Contents, while contained therein.....	15,000.00	1.28	192.00
n the brick, stone and concrete building known s Pembina Hall, No. 300, W.C.F.U.A. Plan.....	100,000.00	.60	600.00
n Contents, while contained therein.....	10,000.00	1.14	114.00
n the brick, stone and concrete building known s Arts Building, Nos. 430-440,W.C.F.U.A. Plan.	100,000.00	1.10	1,100.00
n Contents, while contained therein.....	40,000.00	1.08	432.00
n the brick, stone and concrete building known s Medical Hall, situate to the South of Power ouse, Nos. 500-513, W.C.F.U.A. Plan.....	100,000.00	1.14	1,140.00
n Contents, while contained therein.....	25,000.00	1.20	300.00
n the brick, stone and concrete building known s Power House and Laboratory, including Power nd Heating Equipment, but excluding Electrical achinery, Nos. 460-5, W.C.F.U.A. Plan.....	84,400.00	2.64	2,228.16
n Electrical Machinery while contained therein	28,000.00	2.38	666.40
n Contents, while contained therein.....	15,000.00	2.94	441.00
n the brick, stone and concrete building known s the South Laboratory and garage, No. 450, .C.F.U.A. Plan.....	43,000.00	2.76	1,186.80
n Contents excluding Motor Cars in use, while ontained therein.....	12,000.00	3.36	403.20
n the brick, stone and concrete building known s the North Laboratory, Nos. 400-410, W.C.F.U. . Plan.....	43,000.00	2.52	1,083.60
n Contents, while contained therein.....	15,000.00	3.12	468.00
n the brick building known as Gas House and Green ouse, Nos.278-279, W.C.F.U.A. Plan.....	3,200.00	1.84	58.88
n Machinery and Equipment, including furnaces etorts, smokestacks, engines, and all other quipment, but excluding contents of greenhouse hile contained therein or thereon	3,000.00	2.34	70.20
n the frame building known as the Carpenter, lacksmith, and Paint Shop, while contained herein.....	1,000.00	7.48	74.80
n Machinery and Equipment usual to a Carpenter lacksmith and Paint Shop, while contained herein.....	2,000.00	7.78	155.60
n stock of materials and supplies usual to a arpenter, Blacksmith and Paint Shop, while ontained therein.....	4,000.00	7.78	311.20
n building of Greenhouse, situate to the South est of Gas House, No. 284, W.C.F.U.A. Plan....	500.00	1.84	9.20
verage Rate: 1.539.	$ 1,098,100.00		$16,907.34

SCHEDULE OF INSURANCE

December 31st, 1928

Property	Amount	Rate	Premium
brick, stone and concrete building known			
ndance Hall, Dining Hall, Boiler House			
itchen, Nos. 250-262, W.C.F.U.A. Plan.....	$ 276,000.00	1.36	3,753.60
ments, while contained therein.....	35,000.00	1.60	560.00
brick, stone and concrete building known			
inkiola Hall, Nos. 200-216, W.C.F.U.A.Plan	145,000.00	1.09	1,580.50
ments, while contained therein.....	15,000.00	1.28	192.00
brick, stone and concrete building known			
bing Hall, No. 200, W.C.F.U.A. Plan.....	100,000.00	.60	600.00
ments, while contained therein.....	10,000.00	1.14	114.00
brick, stone and concrete building known			
g Building, Nos. 430-440, W.C.F.U.A. Plan.	100,000.00	1.10	1,100.00
ments, while contained therein.....	40,000.00	1.08	432.00
brick, stone and concrete building known			
ical Hall, situate to the South of Power			
Nos. 300-312, W.C.F.U.A. Plan.....	100,000.00	1.14	1,140.00
ments, while contained therein.....	25,000.00	1.20	300.00
brick, stone and concrete building known			
er Houses and Laboratory, including Power			
ating Equipment, but excluding Electrical			
ory, Nos. 460-5, W.C.F.U.A. Plan.....	84,400.00	2.64	2,228.16
ctrical Machinery while contained therein	28,000.00	2.30	644.40
ments, while contained therein.....	15,000.00	2.94	441.00
brick, stone and concrete building known			
South Laboratory and garage, No. 480,			
U.A. Plan.....	43,000.00	2.76	1,186.80
ments excluding Motor Cars in use, while			
ned therein.....	12,000.00	3.36	403.20
brick, stone and concrete building known			
North Laboratory, Nos. 400-410, W.C.F.U.			
.....	43,000.00	2.52	1,083.60
ments, while contained therein.....	15,000.00	3.12	468.00
brick building known as Gas House and Green			
Nos.278-278, W.C.F.U.A. Plan.....	3,200.00	1.84	58.88
inery and Equipment, including furnaces			
s, smokestacks, engines, and all other			
ent, but excluding contents of greenhouses			
contained therein or thereon	3,000.00	2.34	70.20
frame building known as the Carpenter,			
mith, and Paint Shop, while contained			
.....	1,000.00	7.48	74.80
inery and Equipment usual to a Carpenter			
mith and Paint Shop, while contained			
.....	2,000.00	7.78	155.60
k of materials and supplies usual to a			
ter, Blacksmith and Paint Shop, while			
ned therein.....	4,000.00	7.78	311.20
lding of Greenhouses, situate to the South			
f Gas House, No. 284, W.C.F.U.A. Plan....	500.00	1.84	9.20
	$ 1,098,100.00		$16,907.34

Rate: 1.539.

SCHEDULE OF INSURANCE

FARM

December 31st, 1923

49

Property	Amount	Rate	Premium
n the frame building, nown as Superintendent's dwelling.....	$2,500.00	1.50	$ 37.50
n the frame building including Silos ttached thereto, known as Animal Husbandry arn.....	20,000.00	1.50	300.00
n the frame building, nown as the Field Husbandry Barn.....	7,000.00	1.50	105.00
n the frame building, nown as the Dairy Building.....	1,000.00	1.50	15.00
n the frame building, nown as the New Horse Barn.....	12,000.00	1.50	180.00
n the frame building, nown as the New Sheep Barn.....	5,000.00	1.50	75.00
n the frame building, nown as the New Swine Barn.....	7,000.00	1.50	105.00
n Grade Livestock (excluding any animals pecifically insured) not more than $200 on ny one horse, $200 on any one horned cattle, r $100 on any other animal recoverable in vent of loss, but in no case to exceed 75% f its actual cash value.....	5,000.00	1.25	62.50
n Registered Livestock (excluding any nimals specifically insured, not more than 1000 on any one horse, $1000 on any one horned attle, or $200 on any other animal recoverable n event of loss, but in no case to exceed 5% of its actual cash value.....	15,000.00	1.25	187.50
n feed of all kinds, while contained in Animal Husbandry arn.....	1,000.00	1.25	12.50
n Farn and Stable tools, utensils and equip- ent, while contained in the above described nimal Husbandry Barn. Not more than 75% f the actual cash value will be recoverable n any one article in the event of loss.....	1,000.00	1.25	12.50
n Agricultural Implements and Equipment of all kinds hile contained in above described Field sbandry Barn. Not more than 75% of the ctual cash value will be recoverable on any ne article in the event of loss.....	3,000.00	1.25	37.50
	$79,500.00		$1,130.00

verage Rate: 1.4215

SCHEDULE OF INSURANCE

FARM

December 31st, 1928

Property	Amount	Rate	Premium
frame building.			
Superintendent's dwelling	$6,500.00	1.50	97.50
frame building including Sales			
thereto, known as Animal Husbandry			
	20,000.00	1.50	300.00
frame building.			
the Field Husbandry Barn	7,000.00	1.50	105.00
frame building.			
the Dairy Building	1,000.00	1.50	15.00
frame building.			
the New Horse Barn	12,000.00	1.50	180.00
frame building.			
the New Sheep Barn	5,000.00	1.50	75.00
frame building.			
the New Swine Barn	7,000.00	1.50	105.00
livestock (excluding any animals			
ally insured) not more than $500 on			
horse, $200 on any one horned cattle,			
on any other animal recoverable in			
loss, but in no case to exceed 75%			
ctual cash value	5,000.00	1.25	62.50
ctered livestock (excluding any			
specifically insured, not more than			
any one horse, $1000 on any one horned			
or $200 on any other animal recoverable			
or loss, but in no case to exceed			
te actual cash value	15,000.00	1.25	187.50
of all kinds, while contained in Animal Husbandry			
	1,000.00	1.25	12.50
and Stable tools, utensils and equip-			
ile contained in the above described			
Husbandry Barn. Not more than 75%			
ctual cash value will be recoverable			
one article in the event of loss	1,000.00	1.25	12.50
ultural Implements and Equipment of all kinds			
ontained in above described Field			
y Barn. Not more than 75% of the			
cash value will be recoverable on any			
cle in the event of loss	3,000.00	1.25	37.50
Rate: 1.4218	$74,500.00		$1,059.00

SCHEDULE OF INSURANCE

FACULTY

December 31st, 1923

Property	Amount	Rate	Premium
n the part brick part frame building, nown as President's Dwelling No.1.....	$10,000.00	1.00	$100.00
n the frame building nown as the President's Garage.....	900.00	1.20	10.80
n the part brick part frame building, nown as Dwelling No. 2.....	6,000.00	1.00	60.00
n the Brick building nown as Dwelling No. 3.....	6,000.00	.80	48.00
n the part brick part frame building, nown as dwelling No. 4.....	6,000.00	1.00	60.00
n the part brick part frame building, nown as Dwelling No. 5.....	5,000.00	1.10	55.00
n the part brick part frame building, nown as Dwelling No. 6.....	5,000.00	1.20	60.00
n the part brick part frame building, nown as Dwelling No. 7.....	5,000.00	1.10	55.00
n the part brick part frame building, nown as Dwelling No. 8.....	6,000.00	1.10	66.00
n the part brick part frame building, nown as Dwelling No. 9.....	5,000.00	1.10	55.00
n the part brick part frame building, nown as Dwelling No. 10.....	5,000.00	1.00	50.00
verage Rate: 1.0347.	$59,900.00		$619.80

SCHEDULE OF INSURANCE

FACULTY

December 31st, 1923

Property	Amount	Rate	Premium
the part brick part frame building,			
wn as President's Dwelling No.1.....	$10,000.00	1.00	$100.00
the frame building.....			
wn as the President's Garage.....	900.00	1.20	10.80
the part brick part frame building,			
wn as Dwelling No. 2.....	6,000.00	1.00	60.00
the Brick building			
wn as Dwelling No. 3.....	6,000.00	.80	46.00
the part brick part frame building,			
wn as dwelling No. 4.....	6,000.00	1.00	60.00
the part brick part frame building,			
wn as Dwelling No. 5.....	6,000.00	1.10	66.00
the part brick part frame building,			
wn as Dwelling No. 6.....	6,000.00	1.20	60.00
the part brick part frame building,			
wn as Dwelling No. 7.....	6,000.00	1.10	66.00
the part brick part frame building,			
wn as Dwelling No. 8.....	6,000.00	1.10	66.00
the part brick part frame building,			
wn as Dwelling No. 9.....	6,000.00	1.10	66.00
the part brick part frame building,			
wn as Dwelling No. 10.....	6,000.00	1.00	60.00
rage Rate: 1.0347.	$84,900.00		$879.80

TRUST ACCOUNT

December 31st, 1923.

	Dr.	Cr.
Associate Air Research,		590.82
Agricultural Club,		33.90
Agnew, T.J.		44.00
Alcohol Account,	706.86	
Andrews, E.		50.00
Black, D.M.		50.00
Berry, Wm.	125.00	
Brown, W.R.		155.00
Cameron, Geo.		35.00
Caution Money, 1920-21,		593.14
Caution Money, 1921-22,		249.29
Caution Money, 1922-23,		2892.04
Caution Money, 1923-24,		2990.00
Caldwell, Olive,		41.10
Cook, W.H.		76.20
Cassels.J.		113.00
Cain, Ardis]	10.00	
Crawford, G.M.		256.94
Class 1924,		159.31
Class 1923,		156.85
C.O.T.C.		2.86
Class 1925,		241.56
Dr. J.B. Collip Research,		4637.68
Dr. J.B. Collip, Trading Account,	1161.30	
Dr. J.B. Collip, Plant Extract,		2000.00
Calhoun, W.P.		2.00
Crawford, H.W.		6.95
Coal Research Mines Branch,	88.00	
Commerce Club,		26.00
Dahl, Paul,		4.00
Dowding, S.		50.00
DeMille, W.E.		10.00
Ethridge, F.M.		103.00
Faculty Club,		7.82
Field Husbandry Research,		375.49
Ferguson, Lola,		10.00
French Club,		1.42
Gateway,		60.07
George, G.R.		.50
Gaetz, H.H.		136.58
Gray, D.R.		2.00
Gordon, Dr. R.K.	180.58	
Harrocks, M.		3.00
Husband, G.D.		100.00
Harrison, Bob,		2.75
Hutzulak, Paul,		25.00
House Committee,		47.20
Hansen, D.A.		3.85
Hollinshead, J.L.		4.50
Hallman, Vernon,		12.00
Interest Account,		1595.58
Iddings, A.		25.00

University of Alberta

December 31st, 1923

STUDENTS' LOAN FUND

1922				
Dec.	31st.	Balance at Credit of Fund		113.59
1923				
Jan.	11th.	Cash received in repayment of Loans	75.75	
	25th.	University of Alberta Grant	200.00	
Oct.	31st.	Bank Interest	9.81	
Dec.	31st.	Interest on Loans	35.05	
Dec.	31st.	Amount to Credit of Fund		439.60
		Represented by:		
Dec.	31st.	Cash in Imperial Bank of Canada		439.60

University of Alberta

December 31st, 1923

ROCKEFELLER GRANT

1923				
Dec. 11th.	Donation from			
	Rockefeller Foundation			500,000.00
	Represented by:			
Dec. 31st.	Savings Account		425,000.00	
	General Account		75,000.00	500,000.00

Imperial Bank of Canada.

University of Alberta

December 31st, 1923

ROCKEFELLER GRANT

1923

Dec. 11th. Donation From

Rockefeller Foundation $500,000.

Represented By:

Dec. 31st. Savings Account $423,000.00

General Account 75,000.00 $500,000.

Imperial Bank of Canada.

University of Alberta

December 31st, 1923

ALBERTA PHARMACEUTICAL ASSOCIATION

1922				
Dec.	31st.	Balance at Credit of Fund	7000.00	
1923				
Dec.	3rd.	Interest on Debentures	420.00	
	31st.	Amount to Credit of Fund		7420.00
		Represented by:		
Dec.	31st.	Cash in Imperial Bank of Canada	420.00	
		7 Debentures Town of Vegreville 6% @ 1000.00 ea.	7000.00	
				7420.00

University of Alberta

December 31st, 1923

ALBERTA PHARMACEUTICAL ASSOCIATION

1922

Dec. 31st. Balance at Credit of Fund 7000.00

1923

Dec. 3rd. Interest on Debentures 420.00

31st. Amount to Credit of Fund 7420.00

Represented by:

Dec. 31st. Bank in Imperial Bank of Canada 420.00

7 Debentures Town of Vegreville
6% @ 1000.00 ea. 7000.00

7420.00

University of Alberta.

December 31st, 1923.

SIR JAMES AIKEN SCHOLARSHIP FUND.

1922			
Dec. 31st.	Balance at Credit of Fund	2107.80	
1923			
Dec. 31st.	Interest on Bank Balances and Investments	126.48	
	Less	2234.28	
Nov. 1st.	Cash Paid (Scholarship)	125.00	
Dec. 31st.	Amount to Credit of Fund		2109.28
	Represented by:		
	P. of A. Debenture $2000 @ 96.64	1932.80	
	P. of A. Saving Certificates	115.00	
	Cash in Bank	61.48	
			2109.28

6000 115.00

University of Alberta.

December 31st, 1928.

SIR JAMES AIKEN SCHOLARSHIP FUND.

1928

Dec. 31st. Balance at Credit of Fund $107.00

1929

Dec. 31st. Interest on Bank Balance and Investments 126.48

Less

Nov. 1st. Cash Paid (Scholarship) 125.00

Dec. 31st. Amount to Credit of Fund $108.48

Represented by:

P. of A. Debenture $2000 @ 96.84

P. of A.Saving Certificates 1126.00

Cash in Bank 61.48

$1187.48

University of Alberta

December 31st, 1923

WOMEN'S UNIVERSITY CLUB LOAN FUND

1922			
Dec. 31st.	Balance at Credit of Fund	30,86	
1923			
May 8th.	Cash received in repayment of Loan	100.00	
Dec. 31st.	Interest on Loans and Bank Balance	10.16	
	Amount to Credit of Fund		141.02
	Represented by:		
Dec. 31st.	Cash in Imperial Bank of Canada		141.02

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University of Alberta

December 31st, 1923

WOMEN'S UNIVERSITY CLUB LOAN FUND

1922		
Dec. 31st.	Balance at Credit of Fund	30.65
1923		
May 8th.	Cash received in repayment of loan	100.00
Dec. 31st.	Interest on Loans and Bank Balance	10.15
	Amount to Credit of Fund	141.0
	Represented by:	
Dec. 31st.	Cash in Imperial Bank of Canada	141.0

University of Alberta

December 31st, 1923

MOSIER MEMORIAL FUND

1922				
Dec. 31st.	Balance at Credit of Fund (included with Gen. Trust Account)		350.00	
31st.	Interest on Bank Balance and Saving Certificates		9.26	
	Amount to Credit of Fund			359.26
	Represented by:			
	P. of A. Saving Certificates		350.00	
	Cash in Imperial Bank of Canada		9.26	
				359.26

University of Alberta

December 31st, 1923

MOSIER MEMORIAL FUND

1923

Dec. 31st.	Balance at Credit of Fund (included with Gen. Trust Account)	380.00
31st.	Interest on Bank Balance and Saving Certificates	9.36
	Amount to Credit of Fund	389.
	Represented by:	
	P. of A. Saving Certificates	380.00
	Cash in Imperial Bank of Canada	9.36
		389.

University of Alberta

December 31st, 1923

19th ALBERTA DRAGOONS

I. O. D. E.

1922			
Dec. 31st.	Balance at Credit of Fund	58.99	
1923			
Oct. 31st.	Bank Interest	1.68	
	Amount to Credit of Fund		60.67
	Represented by:		
Dec. 31st.	Cash in Imperial Bank of Canada		60.67

University of Alberta

December 31st, 1923

DR. BLAIS' PRIZE

1922			
Dec. 31st.	Balance at Credit of Fund	10.96	
1923			
Oct. 31st.	Bank Interest	.24	
	Amount to Credit of Fund represented by		11.20
Dec. 31st.	Cash in Imperial Bank of Canada		11.20

University of Alberta

December 31st, 1982

DR. BLAIR' TRIBE

1982			
Dec. 31st.	Balance at Credit of Fund		10.50
1982			
Oct. 31st.	Bank Interest		.24
	Amount to Credit of Fund represented by		11.20
Dec. 31st.	Cash in Imperial Bank of Canada		11.20

UNIVERSITY OF ALBERTA

DECEMBER 31st, 1924.

WOMEN'S UNIVERSITY CLUB SCHOLARSHIP FUND

1922				
Dec. 31st.	Balance at credit of Fund		1165.49	
1923				
Oct. 31st.	Bank Interest		5.49	
Dec. 31st.	Debenture Interest		52.00	
	Amount to credit of Fund represented by			1222.98
Dec. 31st.	Cash in Imperial Bank of Canada.		222.98	
	3-Dominion of Canada 100.00 5½% Gold Bonds, due 1934			
	2-Dominion of Canada 50.00 5½% Gold Bonds, due 1934			
	1-Dominion of Canada 500.00 5% Gold Bonds, due 1925			
	1-Dominion of Canada 100.00 5% Gold Bond, due 1925		1000.00	
				1222.98

University of Alberta

December 31st, 1923

WOMEN'S UNIVERSITY CLUB

COLONIAL HISTORY BOOK ACCOUNT

1922			
Dec. 31st.	Balance at Credit of Fund	65.28	
1923			
Oct. 31st.	Bank Interest	1.92	
	Amount to Credit of Fund		67.20
	Represented by:		
Dec. 31st.	Cash in Imperial Bank of Canada		67.20

University of Alberta

December 31st, 1923

WOMEN'S UNIVERSITY CLUB

GOLDENIAN HISTORY BOOK ACCOUNT

1923

Dec. 31st. Balance at Credit of Fund 66.80

1923

Oct. 31st. Bank Interest 1.20

Amount to Credit of Fund 67.20

Represented by:

Dec. 31st. Cash in Imperial Bank of Canada 67.20

University of Alberta

December 31st, 1923

LAW LIBRARY FUND

1922			
Dec. 31st.	Balance at Credit of Fund	560.84	
1923			
Oct. 31st.	Bank Interest	17.02	
	Amount to Credit of Fund		577.86
	Represented by:		
Dec. 31st.	Cash in Imperial Bank of Canada		577.86

University of Alberta

December 31st, 1923

LAW LIBRARY FUND

1922		
Dec. 31st.	Balance at Credit of Fund	560.84
1923		
Oct. 31st.	Bank Interest	17.02
	Amount to Credit of Fund	577.86
	Represented by:	
Dec. 31st.	Cash in Imperial Bank of Canada	577.86

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